

Table 1: 31-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-----------------------------------|---|
| 1 | $\mathcal{O}(31; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(16; \emptyset)$ | 4294967295 |
| 2 | $\mathcal{O}(15; \{2^4\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^8\})$ | 268435456 |
| 2 | $\mathcal{O}(13; \{2^{12}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{16}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{20}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{24}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{28}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{32}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{36}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{40}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{44}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{48}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{52}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{56}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{60}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{64}\})$ | 1 |
| 3 | $\mathcal{O}(11; \emptyset)$ | 31381059608 |
| 3 | $\mathcal{O}(10; \{3^3\})$ | 6973568802 |
| 3 | $\mathcal{O}(9; \{3^6\})$ | 8523250758 |
| 3 | $\mathcal{O}(8; \{3^9\})$ | 7317942570 |
| 3 | $\mathcal{O}(7; \{3^{12}\})$ | 6533535654 |
| 3 | $\mathcal{O}(6; \{3^{15}\})$ | 5804398602 |
| 3 | $\mathcal{O}(5; \{3^{18}\})$ | 5159819718 |
| 3 | $\mathcal{O}(4; \{3^{21}\})$ | 4586467050 |
| 3 | $\mathcal{O}(3; \{3^{24}\})$ | 4076863974 |
| 3 | $\mathcal{O}(2; \{3^{27}\})$ | 3623878602 |
| 3 | $\mathcal{O}(1; \{3^{30}\})$ | 3221225478 |
| 3 | $\mathcal{O}(0; \{3^{33}\})$ | 2863311530 |
| 4 | $\mathcal{O}(8; \{2^2\})$ | 4294901760 |
| 4 | $\mathcal{O}(7; \{2^6\})$ | 268419072 |
| 4 | $\mathcal{O}(7; \{2^3, 4^2\})$ | 536870912 |
| 4 | $\mathcal{O}(7; \{4^4\})$ | 2147483648 |
| 4 | $\mathcal{O}(6; \{2^{10}\})$ | 16773120 |
| 4 | $\mathcal{O}(6; \{2^7, 4^2\})$ | 33554432 |
| 4 | $\mathcal{O}(6; \{2^4, 4^4\})$ | 134217728 |
| 4 | $\mathcal{O}(6; \{2, 4^6\})$ | 536870912 |
| 4 | $\mathcal{O}(5; \{2^{14}\})$ | 1047552 |
| 4 | $\mathcal{O}(5; \{2^{11}, 4^2\})$ | 2097152 |
| 4 | $\mathcal{O}(5; \{2^8, 4^4\})$ | 8388608 |
| 4 | $\mathcal{O}(5; \{2^5, 4^6\})$ | 33554432 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(5; \{2^2, 4^8\})$ | 134217728 |
| 4 | $\mathcal{O}(4; \{2^{18}\})$ | 65280 |
| 4 | $\mathcal{O}(4; \{2^{15}, 4^2\})$ | 131072 |
| 4 | $\mathcal{O}(4; \{2^{12}, 4^4\})$ | 524288 |
| 4 | $\mathcal{O}(4; \{2^9, 4^6\})$ | 2097152 |
| 4 | $\mathcal{O}(4; \{2^6, 4^8\})$ | 8388608 |
| 4 | $\mathcal{O}(4; \{2^3, 4^{10}\})$ | 33554432 |
| 4 | $\mathcal{O}(4; \{4^{12}\})$ | 134217728 |
| 4 | $\mathcal{O}(3; \{2^{22}\})$ | 4032 |
| 4 | $\mathcal{O}(3; \{2^{19}, 4^2\})$ | 8192 |
| 4 | $\mathcal{O}(3; \{2^{16}, 4^4\})$ | 32768 |
| 4 | $\mathcal{O}(3; \{2^{13}, 4^6\})$ | 131072 |
| 4 | $\mathcal{O}(3; \{2^{10}, 4^8\})$ | 524288 |
| 4 | $\mathcal{O}(3; \{2^7, 4^{10}\})$ | 2097152 |
| 4 | $\mathcal{O}(3; \{2^4, 4^{12}\})$ | 8388608 |
| 4 | $\mathcal{O}(3; \{2, 4^{14}\})$ | 33554432 |
| 4 | $\mathcal{O}(2; \{2^{26}\})$ | 240 |
| 4 | $\mathcal{O}(2; \{2^{23}, 4^2\})$ | 512 |
| 4 | $\mathcal{O}(2; \{2^{20}, 4^4\})$ | 2048 |
| 4 | $\mathcal{O}(2; \{2^{17}, 4^6\})$ | 8192 |
| 4 | $\mathcal{O}(2; \{2^{14}, 4^8\})$ | 32768 |
| 4 | $\mathcal{O}(2; \{2^{11}, 4^{10}\})$ | 131072 |
| 4 | $\mathcal{O}(2; \{2^8, 4^{12}\})$ | 524288 |
| 4 | $\mathcal{O}(2; \{2^5, 4^{14}\})$ | 2097152 |
| 4 | $\mathcal{O}(2; \{2^2, 4^{16}\})$ | 8388608 |
| 4 | $\mathcal{O}(1; \{2^{30}\})$ | 12 |
| 4 | $\mathcal{O}(1; \{2^{27}, 4^2\})$ | 32 |
| 4 | $\mathcal{O}(1; \{2^{24}, 4^4\})$ | 128 |
| 4 | $\mathcal{O}(1; \{2^{21}, 4^6\})$ | 512 |
| 4 | $\mathcal{O}(1; \{2^{18}, 4^8\})$ | 2048 |
| 4 | $\mathcal{O}(1; \{2^{15}, 4^{10}\})$ | 8192 |
| 4 | $\mathcal{O}(1; \{2^{12}, 4^{12}\})$ | 32768 |
| 4 | $\mathcal{O}(1; \{2^9, 4^{14}\})$ | 131072 |
| 4 | $\mathcal{O}(1; \{2^6, 4^{16}\})$ | 524288 |
| 4 | $\mathcal{O}(1; \{2^3, 4^{18}\})$ | 2097152 |
| 4 | $\mathcal{O}(1; \{4^{20}\})$ | 8388608 |
| 4 | $\mathcal{O}(0; \{2^{31}, 4^2\})$ | 2 |
| 4 | $\mathcal{O}(0; \{2^{28}, 4^4\})$ | 8 |
| 4 | $\mathcal{O}(0; \{2^{25}, 4^6\})$ | 32 |
| 4 | $\mathcal{O}(0; \{2^{22}, 4^8\})$ | 128 |
| 4 | $\mathcal{O}(0; \{2^{19}, 4^{10}\})$ | 512 |
| 4 | $\mathcal{O}(0; \{2^{16}, 4^{12}\})$ | 2048 |
| 4 | $\mathcal{O}(0; \{2^{13}, 4^{14}\})$ | 8192 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(0; \{2^{10}, 4^{16}\})$ | 32768 |
| 4 | $\mathcal{O}(0; \{2^7, 4^{18}\})$ | 131072 |
| 4 | $\mathcal{O}(0; \{2^4, 4^{20}\})$ | 524288 |
| 4 | $\mathcal{O}(0; \{2, 4^{22}\})$ | 2097152 |
| 5 | $\mathcal{O}(7; \emptyset)$ | 6103515624 |
| 5 | $\mathcal{O}(5; \{5^5\})$ | 1992187500 |
| 5 | $\mathcal{O}(3; \{5^{10}\})$ | 3276812500 |
| 5 | $\mathcal{O}(1; \{5^{15}\})$ | 5368709100 |
| 6 | $\mathcal{O}(6; \emptyset)$ | 2176246800 |
| 6 | $\mathcal{O}(5; \{2^4\})$ | 60465152 |
| 6 | $\mathcal{O}(5; \{3^3\})$ | 120814254 |
| 6 | $\mathcal{O}(5; \{2, 3, 6\})$ | 120932352 |
| 6 | $\mathcal{O}(4; \{2^8\})$ | 1679360 |
| 6 | $\mathcal{O}(4; \{2^4, 3^3\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{3^6\})$ | 36807210 |
| 6 | $\mathcal{O}(4; \{2^5, 3, 6\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2, 3^4, 6\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^2, 3^2, 6^2\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2^3, 6^3\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{3, 6^4\})$ | 16796160 |
| 6 | $\mathcal{O}(3; \{2^{12}\})$ | 46592 |
| 6 | $\mathcal{O}(3; \{2^8, 3^3\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^4, 3^6\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{3^9\})$ | 7807590 |
| 6 | $\mathcal{O}(3; \{2^9, 3, 6\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^5, 3^4, 6\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2, 3^7, 6\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^6, 3^2, 6^2\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^2, 3^5, 6^2\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^7, 6^3\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^3, 3^3, 6^3\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^4, 3, 6^4\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{3^4, 6^4\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2, 3^2, 6^5\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^2, 6^6\})$ | 1026432 |
| 6 | $\mathcal{O}(2; \{2^{16}\})$ | 1280 |
| 6 | $\mathcal{O}(2; \{2^{12}, 3^3\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^8, 3^6\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^4, 3^9\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{3^{12}\})$ | 1659690 |
| 6 | $\mathcal{O}(2; \{2^{13}, 3, 6\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^9, 3^4, 6\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^5, 3^7, 6\})$ | 111456 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(2; \{2, 3^{10}, 6\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3^2, 6^2\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^6, 3^5, 6^2\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^2, 3^8, 6^2\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^{11}, 6^3\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^7, 3^3, 6^3\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^3, 3^6, 6^3\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^8, 3, 6^4\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^4, 3^4, 6^4\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{3^7, 6^4\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^5, 3^2, 6^5\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2, 3^5, 6^5\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^6, 6^6\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^2, 3^3, 6^6\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^3, 3, 6^7\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{3^2, 6^8\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2, 6^9\})$ | 220320 |
| 6 | $\mathcal{O}(1; \{2^{20}\})$ | 32 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3^3\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^6\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^8, 3^9\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^4, 3^{12}\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{3^{15}\})$ | 294894 |
| 6 | $\mathcal{O}(1; \{2^{17}, 3, 6\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^4, 6\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^9, 3^7, 6\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^5, 3^{10}, 6\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2, 3^{13}, 6\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3^2, 6^2\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^5, 6^2\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^6, 3^8, 6^2\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{11}, 6^2\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^{15}, 6^3\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^3, 6^3\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^7, 3^6, 6^3\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^3, 3^9, 6^3\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3, 6^4\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^8, 3^4, 6^4\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^4, 3^7, 6^4\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{3^{10}, 6^4\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^9, 3^2, 6^5\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^5, 3^5, 6^5\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2, 3^8, 6^5\})$ | 98280 |

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| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(1; \{2^{10}, 6^6\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^6, 3^3, 6^6\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^2, 3^6, 6^6\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^7, 3, 6^7\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^3, 3^4, 6^7\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^4, 3^2, 6^8\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{3^5, 6^8\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^5, 6^9\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2, 3^3, 6^9\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^2, 3, 6^{10}\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{6^{12}\})$ | 49176 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^3\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^9\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{12}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{15}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^{21}, 3, 6\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^4, 6\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^7, 6\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^9, 3^{10}, 6\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{13}, 6\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2, 3^{16}, 6\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^2, 6^2\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^5, 6^2\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^8, 6^2\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{11}, 6^2\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{14}, 6^2\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{19}, 6^3\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^3, 6^3\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^6, 6^3\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^7, 3^9, 6^3\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{12}, 6^3\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3, 6^4\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^4, 6^4\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^8, 3^7, 6^4\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{10}, 6^4\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{3^{13}, 6^4\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^2, 6^5\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^9, 3^5, 6^5\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^5, 3^8, 6^5\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2, 3^{11}, 6^5\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{14}, 6^6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^3, 6^6\})$ | 170 |

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| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2^6, 3^6, 6^6\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^2, 3^9, 6^6\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3, 6^7\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^7, 3^4, 6^7\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^3, 3^7, 6^7\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^8, 3^2, 6^8\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^4, 3^5, 6^8\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{3^8, 6^8\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^9, 6^9\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^5, 3^3, 6^9\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2, 3^6, 6^9\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^6, 3, 6^{10}\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^2, 3^4, 6^{10}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^3, 3^2, 6^{11}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^4, 6^{12}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{3^3, 6^{12}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2, 3, 6^{13}\})$ | 5462 |
| 7 | $\mathcal{O}(4; \{7^3\})$ | 172944030 |
| 7 | $\mathcal{O}(1; \{7^{10}\})$ | 423263274 |
| 8 | $\mathcal{O}(4; \{4^2\})$ | 33423360 |
| 8 | $\mathcal{O}(3; \{2^4, 4^2\})$ | 516096 |
| 8 | $\mathcal{O}(3; \{2, 4^4\})$ | 2064384 |
| 8 | $\mathcal{O}(3; \{2^2, 4, 8^2\})$ | 2097152 |
| 8 | $\mathcal{O}(3; \{8^4\})$ | 16777216 |
| 8 | $\mathcal{O}(2; \{2^8, 4^2\})$ | 7680 |
| 8 | $\mathcal{O}(2; \{2^5, 4^4\})$ | 30720 |
| 8 | $\mathcal{O}(2; \{2^2, 4^6\})$ | 122880 |
| 8 | $\mathcal{O}(2; \{2^6, 4, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(2; \{2^3, 4^3, 8^2\})$ | 131072 |
| 8 | $\mathcal{O}(2; \{4^5, 8^2\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{2^4, 8^4\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2, 4^2, 8^4\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{2^{12}, 4^2\})$ | 96 |
| 8 | $\mathcal{O}(1; \{2^9, 4^4\})$ | 384 |
| 8 | $\mathcal{O}(1; \{2^6, 4^6\})$ | 1536 |
| 8 | $\mathcal{O}(1; \{2^3, 4^8\})$ | 6144 |
| 8 | $\mathcal{O}(1; \{4^{10}\})$ | 24576 |
| 8 | $\mathcal{O}(1; \{2^{10}, 4, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(1; \{2^7, 4^3, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(1; \{2^4, 4^5, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2, 4^7, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2^8, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^5, 4^2, 8^4\})$ | 16384 |

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| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(1; \{2^2, 4^4, 8^4\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^3, 4, 8^6\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{4^3, 8^6\})$ | 524288 |
| 8 | $\mathcal{O}(1; \{2, 8^8\})$ | 1048576 |
| 8 | $\mathcal{O}(0; \{2^{14}, 4, 8^2\})$ | 8 |
| 8 | $\mathcal{O}(0; \{2^{11}, 4^3, 8^2\})$ | 32 |
| 8 | $\mathcal{O}(0; \{2^8, 4^5, 8^2\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^5, 4^7, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^2, 4^9, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^{12}, 8^4\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^9, 4^2, 8^4\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^6, 4^4, 8^4\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^3, 4^6, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{4^8, 8^4\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^7, 4, 8^6\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^4, 4^3, 8^6\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2, 4^5, 8^6\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^5, 8^8\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^2, 4^2, 8^8\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{4, 8^{10}\})$ | 524288 |
| 9 | $\mathcal{O}(3; \{3^4\})$ | 3184272 |
| 9 | $\mathcal{O}(3; \{9^3\})$ | 9565938 |
| 9 | $\mathcal{O}(2; \{3^7\})$ | 272160 |
| 9 | $\mathcal{O}(2; \{3^3, 9^3\})$ | 944784 |
| 9 | $\mathcal{O}(1; \{3^{10}\})$ | 24624 |
| 9 | $\mathcal{O}(1; \{3^6, 9^3\})$ | 93312 |
| 9 | $\mathcal{O}(1; \{3^2, 9^6\})$ | 1732104 |
| 9 | $\mathcal{O}(0; \{3^9, 9^3\})$ | 9216 |
| 9 | $\mathcal{O}(0; \{3^5, 9^6\})$ | 171072 |
| 9 | $\mathcal{O}(0; \{3, 9^9\})$ | 2230740 |
| 10 | $\mathcal{O}(4; \emptyset)$ | 99609120 |
| 10 | $\mathcal{O}(3; \{2^4\})$ | 999936 |
| 10 | $\mathcal{O}(2; \{2^8\})$ | 9984 |
| 10 | $\mathcal{O}(2; \{5^5\})$ | 1912500 |
| 10 | $\mathcal{O}(2; \{2^3, 5^2, 10\})$ | 120000 |
| 10 | $\mathcal{O}(2; \{2, 5, 10^3\})$ | 520000 |
| 10 | $\mathcal{O}(1; \{2^{12}\})$ | 96 |
| 10 | $\mathcal{O}(1; \{2^4, 5^5\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2^7, 5^2, 10\})$ | 1200 |
| 10 | $\mathcal{O}(1; \{2^2, 5^4, 10^2\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^5, 5, 10^3\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{5^3, 10^4\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^3, 10^5\})$ | 20400 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 10 | $\mathcal{O}(0; \{2^8, 5^5\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2^{11}, 5^2, 10\})$ | 12 |
| 10 | $\mathcal{O}(0; \{2^3, 5^7, 10\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^6, 5^4, 10^2\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2^9, 5, 10^3\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2, 5^6, 10^3\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^4, 5^3, 10^4\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^7, 10^5\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2^2, 5^2, 10^6\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{5, 10^8\})$ | 52428 |
| 11 | $\mathcal{O}(1; \{11^6\})$ | 11000110 |
| 12 | $\mathcal{O}(3; \{2^2\})$ | 2935296 |
| 12 | $\mathcal{O}(2; \{2^6\})$ | 19200 |
| 12 | $\mathcal{O}(2; \{2^2, 3^3\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{2^3, 4^2\})$ | 40960 |
| 12 | $\mathcal{O}(2; \{4^4\})$ | 163840 |
| 12 | $\mathcal{O}(2; \{2^3, 3, 6\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{3, 4^2, 6\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3^2, 6^2\})$ | 116640 |
| 12 | $\mathcal{O}(2; \{2, 6^3\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{3^2, 4, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 4, 6, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 3, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(1; \{2^{10}\})$ | 96 |
| 12 | $\mathcal{O}(1; \{2^6, 3^3\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^2, 3^6\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{2^7, 4^2\})$ | 256 |
| 12 | $\mathcal{O}(1; \{2^3, 3^3, 4^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^4, 4^4\})$ | 1024 |
| 12 | $\mathcal{O}(1; \{3^3, 4^4\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 4^6\})$ | 4096 |
| 12 | $\mathcal{O}(1; \{2^7, 3, 6\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^3, 3^4, 6\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 4^2, 6\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^4, 4^2, 6\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^4, 6\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 6^2\})$ | 648 |
| 12 | $\mathcal{O}(1; \{3^5, 6^2\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^2, 6^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^5, 6^3\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 6^3\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{2^2, 4^2, 6^3\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 6^4\})$ | 1080 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{6^6\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 4, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^5, 4, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^3, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^5, 4, 6, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4, 6, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^2, 4^3, 6, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4, 6^2, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{4, 6^4, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^2, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 6, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^3, 6^2, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{4^2, 6^2, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3, 6^3, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^3, 4, 12^3\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{4^3, 12^3\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{3, 4, 6, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{3^2, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2, 6, 12^4\})$ | 11520 |
| 12 | $\mathcal{O}(0; \{2^7, 3^3, 4^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^3, 3^6, 4^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4^4\})$ | 16 |
| 12 | $\mathcal{O}(0; \{3^6, 4^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 4^2, 6\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 4^2, 6\})$ | 20 |
| 12 | $\mathcal{O}(0; \{3^7, 4^2, 6\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^4, 6\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^4, 6\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^6, 6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^2, 6^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^2, 6^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^4, 6^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^6, 4^2, 6^3\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^2, 6^3\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^3, 4^4, 6^3\})$ | 16 |
| 12 | $\mathcal{O}(0; \{4^6, 6^3\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^2, 6^4\})$ | 20 |
| 12 | $\mathcal{O}(0; \{3, 4^4, 6^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^2, 4^2, 6^5\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 4^2, 6^6\})$ | 44 |

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| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^8, 3^2, 4, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^5, 4, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^8, 4, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^3, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^3, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^5, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^9, 4, 6, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4, 6, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4, 6, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^6, 4^3, 6, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^3, 6, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^3, 4^5, 6, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{4^7, 6, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4, 6^2, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4, 6^2, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^3, 6^2, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3, 4^5, 6^2, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4, 6^3, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^2, 4^3, 6^3, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^4, 4, 6^4, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{3^3, 4, 6^4, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2, 4^3, 6^4, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3, 4, 6^5, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^9, 3, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^2, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^2, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^4, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3, 4^6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 6, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^2, 6, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^2, 4^4, 6, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^7, 6^2, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 6^2, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 4^2, 6^2, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^3, 4^2, 6^2, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 4^4, 6^2, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 6^3, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^4, 6^3, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^2, 6^3, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 6^4, 12^2\})$ | 172 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^2, 6^5, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^7, 4, 12^3\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^4, 4^3, 12^3\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^3, 4^3, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 4^5, 12^3\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4, 6, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^4, 4, 6, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^3, 6, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4, 6^2, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 4, 6^3, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^5, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^2, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^5, 6, 12^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 6, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 4^2, 6, 12^4\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 6^2, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{6^4, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4, 12^5\})$ | 704 |
| 12 | $\mathcal{O}(0; \{4, 6^2, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^3, 12^6\})$ | 704 |
| 12 | $\mathcal{O}(0; \{4^2, 12^6\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{3, 6, 12^6\})$ | 2752 |
| 13 | $\mathcal{O}(1; \{13^5\})$ | 3234660 |
| 14 | $\mathcal{O}(2; \{2, 7, 14\})$ | 230496 |
| 14 | $\mathcal{O}(1; \{7^5\})$ | 163170 |
| 14 | $\mathcal{O}(1; \{2^5, 7, 14\})$ | 1176 |
| 14 | $\mathcal{O}(1; \{2^3, 14^3\})$ | 5880 |
| 14 | $\mathcal{O}(0; \{2^4, 7^5\})$ | 1110 |
| 14 | $\mathcal{O}(0; \{2^9, 7, 14\})$ | 6 |
| 14 | $\mathcal{O}(0; \{2^2, 7^4, 14^2\})$ | 6666 |
| 14 | $\mathcal{O}(0; \{2^7, 14^3\})$ | 30 |
| 14 | $\mathcal{O}(0; \{7^3, 14^4\})$ | 39990 |
| 15 | $\mathcal{O}(3; \emptyset)$ | 11374272 |
| 15 | $\mathcal{O}(2; \{3^3\})$ | 101088 |
| 15 | $\mathcal{O}(1; \{3^6\})$ | 4752 |
| 15 | $\mathcal{O}(1; \{5^5\})$ | 40800 |
| 15 | $\mathcal{O}(1; \{3, 5^3, 15\})$ | 23400 |
| 15 | $\mathcal{O}(1; \{3^2, 5, 15^2\})$ | 16200 |
| 15 | $\mathcal{O}(0; \{3^3, 5^5\})$ | 408 |
| 15 | $\mathcal{O}(0; \{3^4, 5^3, 15\})$ | 520 |
| 15 | $\mathcal{O}(0; \{3^5, 5, 15^2\})$ | 504 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 15 | $\mathcal{O}(0; \{5^4, 15^3\})$ | 6552 |
| 15 | $\mathcal{O}(0; \{3, 5^2, 15^4\})$ | 8200 |
| 15 | $\mathcal{O}(0; \{3^2, 15^5\})$ | 8568 |
| 16 | $\mathcal{O}(2; \{8^2\})$ | 245760 |
| 16 | $\mathcal{O}(1; \{2^4, 8^2\})$ | 768 |
| 16 | $\mathcal{O}(1; \{2, 4^2, 8^2\})$ | 3072 |
| 16 | $\mathcal{O}(1; \{2^2, 8, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(1; \{16^4\})$ | 131072 |
| 16 | $\mathcal{O}(0; \{2^6, 8, 16^2\})$ | 32 |
| 16 | $\mathcal{O}(0; \{2^3, 4^2, 8, 16^2\})$ | 128 |
| 16 | $\mathcal{O}(0; \{4^4, 8, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{2, 4, 8^3, 16^2\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{2^4, 16^4\})$ | 512 |
| 16 | $\mathcal{O}(0; \{2, 4^2, 16^4\})$ | 2048 |
| 18 | $\mathcal{O}(2; \{3^2\})$ | 194400 |
| 18 | $\mathcal{O}(1; \{2^4, 3^2\})$ | 576 |
| 18 | $\mathcal{O}(1; \{3^5\})$ | 2160 |
| 18 | $\mathcal{O}(1; \{2, 3^3, 6\})$ | 1728 |
| 18 | $\mathcal{O}(1; \{2^2, 3, 6^2\})$ | 576 |
| 18 | $\mathcal{O}(1; \{6^4\})$ | 1728 |
| 18 | $\mathcal{O}(1; \{3, 9^3\})$ | 8748 |
| 18 | $\mathcal{O}(1; \{2^3, 9, 18\})$ | 1944 |
| 18 | $\mathcal{O}(1; \{3, 6, 9, 18\})$ | 7776 |
| 18 | $\mathcal{O}(1; \{2, 18^3\})$ | 5832 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 9^3\})$ | 36 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6, 9^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^2, 6^2, 9^3\})$ | 72 |
| 18 | $\mathcal{O}(0; \{2^7, 9, 18\})$ | 6 |
| 18 | $\mathcal{O}(0; \{2^3, 3^3, 9, 18\})$ | 48 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 6, 9, 18\})$ | 24 |
| 18 | $\mathcal{O}(0; \{3^4, 6, 9, 18\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6^2, 9, 18\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^2, 6^3, 9, 18\})$ | 48 |
| 18 | $\mathcal{O}(0; \{6, 9^4, 18\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 9^2, 18^2\})$ | 324 |
| 18 | $\mathcal{O}(0; \{6^2, 9^2, 18^2\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^5, 18^3\})$ | 18 |
| 18 | $\mathcal{O}(0; \{2, 3^3, 18^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 6, 18^3\})$ | 72 |
| 18 | $\mathcal{O}(0; \{6^3, 18^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{3, 9, 18^4\})$ | 1620 |
| 20 | $\mathcal{O}(2; \{2^2\})$ | 149760 |
| 20 | $\mathcal{O}(1; \{2^6\})$ | 288 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 20 | $\mathcal{O}(1; \{2^3, 4^2\})$ | 768 |
| 20 | $\mathcal{O}(1; \{4^4\})$ | 3072 |
| 20 | $\mathcal{O}(1; \{2, 5^2, 10\})$ | 3600 |
| 20 | $\mathcal{O}(1; \{2, 4, 5, 20\})$ | 3200 |
| 20 | $\mathcal{O}(0; \{2^2, 4^2, 5^2, 10\})$ | 24 |
| 20 | $\mathcal{O}(0; \{4^2, 5, 10^3\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^5, 4, 5, 20\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^2, 4^3, 5, 20\})$ | 32 |
| 20 | $\mathcal{O}(0; \{4, 5^3, 10, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^3, 4, 10^2, 20\})$ | 24 |
| 20 | $\mathcal{O}(0; \{4^3, 10^2, 20\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2^3, 5^2, 20^2\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4^2, 5^2, 20^2\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2, 5, 10^2, 20^2\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2, 4, 10, 20^3\})$ | 416 |
| 21 | $\mathcal{O}(1; \{21^3\})$ | 26460 |
| 21 | $\mathcal{O}(0; \{3^2, 7^3, 21\})$ | 372 |
| 21 | $\mathcal{O}(0; \{3^3, 21^3\})$ | 660 |
| 22 | $\mathcal{O}(1; \{11^3\})$ | 32670 |
| 22 | $\mathcal{O}(0; \{2^4, 11^3\})$ | 90 |
| 22 | $\mathcal{O}(0; \{2^2, 11^2, 22^2\})$ | 910 |
| 22 | $\mathcal{O}(0; \{11, 22^4\})$ | 9090 |
| 24 | $\mathcal{O}(1; \{2^2, 4^2\})$ | 768 |
| 24 | $\mathcal{O}(1; \{4, 8^2\})$ | 4096 |
| 24 | $\mathcal{O}(1; \{4, 6, 12\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{3, 12^2\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{3, 8, 24\})$ | 4608 |
| 24 | $\mathcal{O}(0; \{3^3, 4, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2, 3, 4, 6, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 8^2, 12\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2^2, 6, 8^2, 12\})$ | 16 |
| 24 | $\mathcal{O}(0; \{8^2, 12^3\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2^4, 3, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^4, 8, 24\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2, 3, 4^2, 8, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 6, 8, 24\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2^2, 6^2, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2^2, 4, 8, 12, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{8^3, 12, 24\})$ | 256 |
| 24 | $\mathcal{O}(0; \{6, 8, 12^2, 24\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 4, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^2, 4, 6, 24^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{6, 8^2, 24^2\})$ | 128 |

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Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 24 | $\mathcal{O}(0; \{2^2, 3, 12, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{6^2, 12, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{4, 12^2, 24^2\})$ | 192 |
| 24 | $\mathcal{O}(0; \{4, 8, 24^3\})$ | 256 |
| 24 | $\mathcal{O}(0; \{3, 24^4\})$ | 640 |
| 25 | $\mathcal{O}(1; \{5^3\})$ | 7200 |
| 26 | $\mathcal{O}(0; \{2^3, 13^2, 26\})$ | 132 |
| 26 | $\mathcal{O}(0; \{2, 13, 26^3\})$ | 1596 |
| 27 | $\mathcal{O}(0; \{3^2, 27^3\})$ | 648 |
| 28 | $\mathcal{O}(0; \{4^2, 7^2, 14\})$ | 60 |
| 28 | $\mathcal{O}(0; \{2^3, 4, 14, 28\})$ | 12 |
| 28 | $\mathcal{O}(0; \{4^3, 14, 28\})$ | 48 |
| 28 | $\mathcal{O}(0; \{2, 7^2, 28^2\})$ | 372 |
| 28 | $\mathcal{O}(0; \{2, 4, 28^3\})$ | 240 |
| 30 | $\mathcal{O}(2; \emptyset)$ | 748800 |
| 30 | $\mathcal{O}(1; \{2^4\})$ | 768 |
| 30 | $\mathcal{O}(1; \{3^3\})$ | 1296 |
| 30 | $\mathcal{O}(1; \{2, 3, 6\})$ | 1728 |
| 30 | $\mathcal{O}(0; \{3, 5^2, 6, 10\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^3, 3, 10, 15\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3^2, 6, 10, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 6^2, 10, 15\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2, 5, 6, 15^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3^2, 5, 10, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 5, 6, 10, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 5^2, 15, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2, 3, 15^2, 30\})$ | 72 |
| 30 | $\mathcal{O}(0; \{2, 3, 10, 30^2\})$ | 24 |
| 31 | $\mathcal{O}(1; \{31^2\})$ | 28830 |
| 32 | $\mathcal{O}(1; \{16^2\})$ | 6144 |
| 32 | $\mathcal{O}(0; \{2^2, 16, 32^2\})$ | 128 |
| 32 | $\mathcal{O}(0; \{32^4\})$ | 4096 |
| 33 | $\mathcal{O}(1; \{11^2\})$ | 9680 |
| 33 | $\mathcal{O}(0; \{3^3, 11^2\})$ | 20 |
| 33 | $\mathcal{O}(0; \{11, 33^3\})$ | 1820 |
| 35 | $\mathcal{O}(1; \{7^2\})$ | 7056 |
| 35 | $\mathcal{O}(0; \{5, 35^3\})$ | 1560 |
| 36 | $\mathcal{O}(1; \{6^2\})$ | 1728 |
| 36 | $\mathcal{O}(0; \{9, 12^2, 18\})$ | 48 |
| 36 | $\mathcal{O}(0; \{9^2, 12, 36\})$ | 72 |
| 36 | $\mathcal{O}(0; \{2^2, 4, 18, 36\})$ | 12 |
| 36 | $\mathcal{O}(0; \{6, 12, 18, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{6, 9, 36^2\})$ | 72 |

Continued on next page

Table 1 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------------|---|
| 36 | $\mathcal{O}(0; \{4, 36^3\})$ | 144 |
| 39 | $\mathcal{O}(0; \{3, 13, 39^2\})$ | 264 |
| 40 | $\mathcal{O}(1; \{4^2\})$ | 2304 |
| 40 | $\mathcal{O}(0; \{5, 8^2, 20\})$ | 32 |
| 40 | $\mathcal{O}(0; \{4, 8, 10, 40\})$ | 32 |
| 40 | $\mathcal{O}(0; \{4, 5, 40^2\})$ | 96 |
| 42 | $\mathcal{O}(0; \{3, 7, 14, 42\})$ | 60 |
| 42 | $\mathcal{O}(0; \{2^3, 21, 42\})$ | 12 |
| 42 | $\mathcal{O}(0; \{3, 6, 21, 42\})$ | 36 |
| 42 | $\mathcal{O}(0; \{2, 42^3\})$ | 60 |
| 44 | $\mathcal{O}(0; \{4^2, 11, 22\})$ | 20 |
| 44 | $\mathcal{O}(0; \{2, 11, 44^2\})$ | 180 |
| 45 | $\mathcal{O}(1; \{3^2\})$ | 3456 |
| 45 | $\mathcal{O}(0; \{3, 5, 9, 45\})$ | 48 |
| 48 | $\mathcal{O}(0; \{3^2, 16, 48\})$ | 16 |
| 48 | $\mathcal{O}(0; \{2, 6, 16, 48\})$ | 16 |
| 52 | $\mathcal{O}(0; \{2, 4, 13, 52\})$ | 24 |
| 54 | $\mathcal{O}(0; \{2, 3, 27, 54\})$ | 36 |
| 60 | $\mathcal{O}(1; \{2^2\})$ | 2304 |
| 62 | $\mathcal{O}(0; \{2^2, 62^2\})$ | 30 |
| 63 | $\mathcal{O}(0; \{63^3\})$ | 540 |
| 64 | $\mathcal{O}(0; \{32, 64^2\})$ | 512 |
| 66 | $\mathcal{O}(0; \{22, 33, 66\})$ | 180 |
| 70 | $\mathcal{O}(0; \{10, 35, 70\})$ | 72 |
| 72 | $\mathcal{O}(0; \{9, 24, 72\})$ | 48 |
| 72 | $\mathcal{O}(0; \{8, 36, 72\})$ | 48 |
| 78 | $\mathcal{O}(0; \{6, 26, 39\})$ | 24 |
| 84 | $\mathcal{O}(0; \{4, 42, 84\})$ | 24 |
| 93 | $\mathcal{O}(0; \{3, 93^2\})$ | 60 |
| 96 | $\mathcal{O}(0; \{3, 32, 96\})$ | 32 |
| 124 | $\mathcal{O}(0; \{2, 124^2\})$ | 60 |
| 126 | $\mathcal{O}(0; \{2, 63, 126\})$ | 36 |

Table 2: 32-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------|---|
| 1 | $\mathcal{O}(32; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(16; \{2^2\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^6\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{10}\})$ | 268435456 |
| Continued on next page | | |

Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-----------------------------------|---|
| 2 | $\mathcal{O}(13; \{2^{14}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{18}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{22}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{26}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{30}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{34}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{38}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{42}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{46}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{50}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{54}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{58}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{62}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{66}\})$ | 1 |
| 3 | $\mathcal{O}(10; \{3^4\})$ | 20920706406 |
| 3 | $\mathcal{O}(9; \{3^7\})$ | 16271660538 |
| 3 | $\mathcal{O}(8; \{3^{10}\})$ | 14721978582 |
| 3 | $\mathcal{O}(7; \{3^{13}\})$ | 13057505370 |
| 3 | $\mathcal{O}(6; \{3^{16}\})$ | 11609860086 |
| 3 | $\mathcal{O}(5; \{3^{19}\})$ | 10319521338 |
| 3 | $\mathcal{O}(4; \{3^{22}\})$ | 9172947222 |
| 3 | $\mathcal{O}(3; \{3^{25}\})$ | 8153726490 |
| 3 | $\mathcal{O}(2; \{3^{28}\})$ | 7247757366 |
| 3 | $\mathcal{O}(1; \{3^{31}\})$ | 6442450938 |
| 3 | $\mathcal{O}(0; \{3^{34}\})$ | 5726623062 |
| 4 | $\mathcal{O}(8; \{4^2\})$ | 8589934592 |
| 4 | $\mathcal{O}(7; \{2^4, 4^2\})$ | 536870912 |
| 4 | $\mathcal{O}(7; \{2, 4^4\})$ | 2147483648 |
| 4 | $\mathcal{O}(6; \{2^8, 4^2\})$ | 33554432 |
| 4 | $\mathcal{O}(6; \{2^5, 4^4\})$ | 134217728 |
| 4 | $\mathcal{O}(6; \{2^2, 4^6\})$ | 536870912 |
| 4 | $\mathcal{O}(5; \{2^{12}, 4^2\})$ | 2097152 |
| 4 | $\mathcal{O}(5; \{2^9, 4^4\})$ | 8388608 |
| 4 | $\mathcal{O}(5; \{2^6, 4^6\})$ | 33554432 |
| 4 | $\mathcal{O}(5; \{2^3, 4^8\})$ | 134217728 |
| 4 | $\mathcal{O}(5; \{4^{10}\})$ | 536870912 |
| 4 | $\mathcal{O}(4; \{2^{16}, 4^2\})$ | 131072 |
| 4 | $\mathcal{O}(4; \{2^{13}, 4^4\})$ | 524288 |
| 4 | $\mathcal{O}(4; \{2^{10}, 4^6\})$ | 2097152 |
| 4 | $\mathcal{O}(4; \{2^7, 4^8\})$ | 8388608 |
| 4 | $\mathcal{O}(4; \{2^4, 4^{10}\})$ | 33554432 |
| 4 | $\mathcal{O}(4; \{2, 4^{12}\})$ | 134217728 |
| 4 | $\mathcal{O}(3; \{2^{20}, 4^2\})$ | 8192 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(3; \{2^{17}, 4^4\})$ | 32768 |
| 4 | $\mathcal{O}(3; \{2^{14}, 4^6\})$ | 131072 |
| 4 | $\mathcal{O}(3; \{2^{11}, 4^8\})$ | 524288 |
| 4 | $\mathcal{O}(3; \{2^8, 4^{10}\})$ | 2097152 |
| 4 | $\mathcal{O}(3; \{2^5, 4^{12}\})$ | 8388608 |
| 4 | $\mathcal{O}(3; \{2^2, 4^{14}\})$ | 33554432 |
| 4 | $\mathcal{O}(2; \{2^{24}, 4^2\})$ | 512 |
| 4 | $\mathcal{O}(2; \{2^{21}, 4^4\})$ | 2048 |
| 4 | $\mathcal{O}(2; \{2^{18}, 4^6\})$ | 8192 |
| 4 | $\mathcal{O}(2; \{2^{15}, 4^8\})$ | 32768 |
| 4 | $\mathcal{O}(2; \{2^{12}, 4^{10}\})$ | 131072 |
| 4 | $\mathcal{O}(2; \{2^9, 4^{12}\})$ | 524288 |
| 4 | $\mathcal{O}(2; \{2^6, 4^{14}\})$ | 2097152 |
| 4 | $\mathcal{O}(2; \{2^3, 4^{16}\})$ | 8388608 |
| 4 | $\mathcal{O}(2; \{4^{18}\})$ | 33554432 |
| 4 | $\mathcal{O}(1; \{2^{28}, 4^2\})$ | 32 |
| 4 | $\mathcal{O}(1; \{2^{25}, 4^4\})$ | 128 |
| 4 | $\mathcal{O}(1; \{2^{22}, 4^6\})$ | 512 |
| 4 | $\mathcal{O}(1; \{2^{19}, 4^8\})$ | 2048 |
| 4 | $\mathcal{O}(1; \{2^{16}, 4^{10}\})$ | 8192 |
| 4 | $\mathcal{O}(1; \{2^{13}, 4^{12}\})$ | 32768 |
| 4 | $\mathcal{O}(1; \{2^{10}, 4^{14}\})$ | 131072 |
| 4 | $\mathcal{O}(1; \{2^7, 4^{16}\})$ | 524288 |
| 4 | $\mathcal{O}(1; \{2^4, 4^{18}\})$ | 2097152 |
| 4 | $\mathcal{O}(1; \{2, 4^{20}\})$ | 8388608 |
| 4 | $\mathcal{O}(0; \{2^{32}, 4^2\})$ | 2 |
| 4 | $\mathcal{O}(0; \{2^{29}, 4^4\})$ | 8 |
| 4 | $\mathcal{O}(0; \{2^{26}, 4^6\})$ | 32 |
| 4 | $\mathcal{O}(0; \{2^{23}, 4^8\})$ | 128 |
| 4 | $\mathcal{O}(0; \{2^{20}, 4^{10}\})$ | 512 |
| 4 | $\mathcal{O}(0; \{2^{17}, 4^{12}\})$ | 2048 |
| 4 | $\mathcal{O}(0; \{2^{14}, 4^{14}\})$ | 8192 |
| 4 | $\mathcal{O}(0; \{2^{11}, 4^{16}\})$ | 32768 |
| 4 | $\mathcal{O}(0; \{2^8, 4^{18}\})$ | 131072 |
| 4 | $\mathcal{O}(0; \{2^5, 4^{20}\})$ | 524288 |
| 4 | $\mathcal{O}(0; \{2^2, 4^{22}\})$ | 2097152 |
| 5 | $\mathcal{O}(6; \{5^3\})$ | 2929687500 |
| 5 | $\mathcal{O}(4; \{5^8\})$ | 5120312500 |
| 5 | $\mathcal{O}(2; \{5^{13}\})$ | 8388607500 |
| 5 | $\mathcal{O}(0; \{5^{18}\})$ | 13743895348 |
| 6 | $\mathcal{O}(5; \{2^2, 3^2\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{3, 6^2\})$ | 120932352 |
| 6 | $\mathcal{O}(4; \{2^6, 3^2\})$ | 3359232 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 6 | $\mathcal{O}(4; \{2^2, 3^5\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^3, 3^3, 6\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2^4, 3, 6^2\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{3^4, 6^2\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2, 3^2, 6^3\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^2, 6^4\})$ | 10077696 |
| 6 | $\mathcal{O}(3; \{2^{10}, 3^2\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^6, 3^5\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^2, 3^8\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^7, 3^3, 6\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^3, 3^6, 6\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^8, 3, 6^2\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^4, 3^4, 6^2\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{3^7, 6^2\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^5, 3^2, 6^3\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2, 3^5, 6^3\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^6, 6^4\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^2, 3^3, 6^4\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^3, 3, 6^5\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{3^2, 6^6\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2, 6^7\})$ | 1959552 |
| 6 | $\mathcal{O}(2; \{2^{14}, 3^2\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3^5\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^6, 3^8\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^2, 3^{11}\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^{11}, 3^3, 6\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^7, 3^6, 6\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^3, 3^9, 6\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^{12}, 3, 6^2\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^8, 3^4, 6^2\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^4, 3^7, 6^2\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{3^{10}, 6^2\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2^9, 3^2, 6^3\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^5, 3^5, 6^3\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2, 3^8, 6^3\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^{10}, 6^4\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^6, 3^3, 6^4\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^2, 3^6, 6^4\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^7, 3, 6^5\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^3, 3^4, 6^5\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^4, 3^2, 6^6\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{3^5, 6^6\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^5, 6^7\})$ | 54432 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(2; \{2, 3^3, 6^7\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^2, 3, 6^8\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{6^{10}\})$ | 443232 |
| 6 | $\mathcal{O}(1; \{2^{18}, 3^2\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3^5\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^8\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^6, 3^{11}\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{14}\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{15}, 3^3, 6\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^6, 6\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^7, 3^9, 6\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^3, 3^{12}, 6\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3, 6^2\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^4, 6^2\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^8, 3^7, 6^2\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^4, 3^{10}, 6^2\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{3^{13}, 6^2\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^2, 6^3\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^9, 3^5, 6^3\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^5, 3^8, 6^3\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2, 3^{11}, 6^3\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{14}, 6^4\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^3, 6^4\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^6, 3^6, 6^4\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^2, 3^9, 6^4\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3, 6^5\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^7, 3^4, 6^5\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^3, 3^7, 6^5\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^8, 3^2, 6^6\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^4, 3^5, 6^6\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{3^8, 6^6\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^9, 6^7\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^5, 3^3, 6^7\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2, 3^6, 6^7\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^6, 3, 6^8\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^2, 3^4, 6^8\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^3, 3^2, 6^9\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^4, 6^{10}\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{3^3, 6^{10}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2, 3, 6^{11}\})$ | 49176 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^5\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^8\})$ | 86 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{11}\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{14}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{17}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^3, 6\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^6, 6\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^9, 6\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{12}, 6\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{15}, 6\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3, 6^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^4, 6^2\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^7, 6^2\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{10}, 6^2\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{13}, 6^2\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{3^{16}, 6^2\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^2, 6^3\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^5, 6^3\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^9, 3^8, 6^3\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{11}, 6^3\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2, 3^{14}, 6^3\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{18}, 6^4\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^3, 6^4\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^6, 6^4\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^6, 3^9, 6^4\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{12}, 6^4\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3, 6^5\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^4, 6^5\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^7, 3^7, 6^5\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{10}, 6^5\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^2, 6^6\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^8, 3^5, 6^6\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^4, 3^8, 6^6\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{3^{11}, 6^6\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{13}, 6^7\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^9, 3^3, 6^7\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^5, 3^6, 6^7\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2, 3^9, 6^7\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3, 6^8\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^6, 3^4, 6^8\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^2, 3^7, 6^8\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^7, 3^2, 6^9\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^3, 3^5, 6^9\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^8, 6^{10}\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^4, 3^3, 6^{10}\})$ | 2730 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{3^6, 6^{10}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^5, 3, 6^{11}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2, 3^4, 6^{11}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^2, 3^2, 6^{12}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^3, 6^{13}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{3, 6^{14}\})$ | 10922 |
| 7 | $\mathcal{O}(2; \{7^8\})$ | 576110346 |
| 8 | $\mathcal{O}(4; \{8^2\})$ | 67108864 |
| 8 | $\mathcal{O}(3; \{2^4, 8^2\})$ | 1048576 |
| 8 | $\mathcal{O}(3; \{2, 4^2, 8^2\})$ | 4194304 |
| 8 | $\mathcal{O}(2; \{2^8, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(2; \{2^5, 4^2, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(2; \{2^2, 4^4, 8^2\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2^3, 4, 8^4\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{4^3, 8^4\})$ | 2097152 |
| 8 | $\mathcal{O}(2; \{2, 8^6\})$ | 4194304 |
| 8 | $\mathcal{O}(1; \{2^{12}, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(1; \{2^9, 4^2, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(1; \{2^6, 4^4, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^3, 4^6, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(1; \{4^8, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^7, 4, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^4, 4^3, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2, 4^5, 8^4\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^5, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^2, 4^2, 8^6\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{4, 8^8\})$ | 2097152 |
| 8 | $\mathcal{O}(0; \{2^{16}, 8^2\})$ | 4 |
| 8 | $\mathcal{O}(0; \{2^{13}, 4^2, 8^2\})$ | 16 |
| 8 | $\mathcal{O}(0; \{2^{10}, 4^4, 8^2\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^7, 4^6, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^4, 4^8, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2, 4^{10}, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^{11}, 4, 8^4\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^8, 4^3, 8^4\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^5, 4^5, 8^4\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^2, 4^7, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^9, 8^6\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^6, 4^2, 8^6\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^3, 4^4, 8^6\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{4^6, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{2^4, 4, 8^8\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2, 4^3, 8^8\})$ | 131072 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(0; \{2^2, 8^{10}\})$ | 262144 |
| 9 | $\mathcal{O}(2; \{3^2, 9^4\})$ | 4251528 |
| 9 | $\mathcal{O}(1; \{3^5, 9^4\})$ | 419904 |
| 9 | $\mathcal{O}(1; \{3, 9^7\})$ | 4960116 |
| 9 | $\mathcal{O}(0; \{3^8, 9^4\})$ | 41472 |
| 9 | $\mathcal{O}(0; \{3^4, 9^7\})$ | 489888 |
| 9 | $\mathcal{O}(0; \{9^{10}\})$ | 6731586 |
| 10 | $\mathcal{O}(3; \{2, 5, 10\})$ | 4000000 |
| 10 | $\mathcal{O}(2; \{2^2, 5^4\})$ | 520000 |
| 10 | $\mathcal{O}(2; \{2^5, 5, 10\})$ | 40000 |
| 10 | $\mathcal{O}(2; \{5^3, 10^2\})$ | 2040000 |
| 10 | $\mathcal{O}(2; \{2^3, 10^3\})$ | 120000 |
| 10 | $\mathcal{O}(1; \{2^6, 5^4\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{2^9, 5, 10\})$ | 400 |
| 10 | $\mathcal{O}(1; \{2, 5^6, 10\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^4, 5^3, 10^2\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2^7, 10^3\})$ | 1200 |
| 10 | $\mathcal{O}(1; \{2^2, 5^2, 10^4\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{5, 10^6\})$ | 327600 |
| 10 | $\mathcal{O}(0; \{2^{10}, 5^4\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^2, 5^9\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^{13}, 5, 10\})$ | 4 |
| 10 | $\mathcal{O}(0; \{2^5, 5^6, 10\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^8, 5^3, 10^2\})$ | 204 |
| 10 | $\mathcal{O}(0; \{5^8, 10^2\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^{11}, 10^3\})$ | 12 |
| 10 | $\mathcal{O}(0; \{2^3, 5^5, 10^3\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^6, 5^2, 10^4\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2, 5^4, 10^5\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^4, 5, 10^6\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^2, 10^8\})$ | 13108 |
| 11 | $\mathcal{O}(2; \{11^4\})$ | 13323310 |
| 12 | $\mathcal{O}(2; \{4^2, 6^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3, 4, 6, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3^2, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2, 6, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(1; \{2^2, 3^4, 4^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 4^2, 6\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^2, 4^4, 6\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^4, 4^2, 6^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^3, 4^2, 6^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2, 4^4, 6^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^2, 6^3\})$ | 1728 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2^3, 3^3, 4, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^3, 4^3, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 4, 6, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^4, 4, 6, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^3, 6, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4, 6^2, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^2, 4, 6^3, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^5, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^2, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^5, 6, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 6, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 4^2, 6, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 6^2, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{6^4, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4, 12^3\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{4, 6^2, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^3, 12^4\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{4^2, 12^4\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{3, 6, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(0; \{2^6, 3^4, 4^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^2, 3^7, 4^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^4, 4^6\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 4^2, 6\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 4^2, 6\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^4, 6\})$ | 16 |
| 12 | $\mathcal{O}(0; \{3^5, 4^4, 6\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^6, 6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^8, 4^2, 6^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4^2, 6^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{3^6, 4^2, 6^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^5, 4^4, 6^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^4, 6^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 4^6, 6^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^2, 6^3\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^2, 6^3\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^4, 6^3\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^2, 6^4\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^3, 4^2, 6^5\})$ | 20 |
| 12 | $\mathcal{O}(0; \{4^4, 6^5\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3, 4^2, 6^6\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^7, 3^3, 4, 12\})$ | 12 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^3, 3^6, 4, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4^3, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^6, 4^3, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^5, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 4, 6, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 4, 6, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^7, 4, 6, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^3, 6, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^3, 6, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^5, 6, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4, 6^2, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4, 6^2, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^3, 6^2, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^6, 4, 6^3, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4, 6^3, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 4^3, 6^3, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{4^5, 6^3, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4, 6^4, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3, 4^3, 6^4, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^2, 4, 6^5, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2, 4, 6^6, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^8, 3^2, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^5, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^8, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^2, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^2, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^4, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^9, 6, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 6, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 6, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 4^2, 6, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^2, 6, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 4^4, 6, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{4^6, 6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 6^2, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 6^2, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^2, 6^2, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3, 4^4, 6^2, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 6^3, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^2, 4^2, 6^3, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 6^4, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^3, 6^4, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 4^2, 6^4, 12^2\})$ | 176 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2, 3, 6^5, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4, 12^3\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^3, 12^3\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3, 4^5, 12^3\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4, 6, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^2, 4^3, 6, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^4, 4, 6^2, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^3, 4, 6^2, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 4^3, 6^2, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 3, 4, 6^3, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^7, 12^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 4^2, 12^4\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^3, 4^2, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 4^4, 12^4\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 6, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^4, 6, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^2, 6, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 6^2, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 6^3, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^2, 4, 6, 12^5\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 12^6\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{6^2, 12^6\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{4, 12^7\})$ | 5376 |
| 13 | $\mathcal{O}(2; \{13^3\})$ | 3770052 |
| 14 | $\mathcal{O}(1; \{2^2, 7^4\})$ | 36456 |
| 14 | $\mathcal{O}(1; \{7^3, 14^2\})$ | 217560 |
| 14 | $\mathcal{O}(0; \{2^6, 7^4\})$ | 186 |
| 14 | $\mathcal{O}(0; \{2^4, 7^3, 14^2\})$ | 1110 |
| 14 | $\mathcal{O}(0; \{2^2, 7^2, 14^4\})$ | 6666 |
| 14 | $\mathcal{O}(0; \{7, 14^6\})$ | 39990 |
| 15 | $\mathcal{O}(1; \{3, 5^2, 15^2\})$ | 23400 |
| 15 | $\mathcal{O}(1; \{3^2, 15^3\})$ | 27000 |
| 15 | $\mathcal{O}(0; \{3^2, 5^6\})$ | 1640 |
| 15 | $\mathcal{O}(0; \{3^3, 5^4, 15\})$ | 1224 |
| 15 | $\mathcal{O}(0; \{3^4, 5^2, 15^2\})$ | 1144 |
| 15 | $\mathcal{O}(0; \{3^5, 15^3\})$ | 1032 |
| 15 | $\mathcal{O}(0; \{5^3, 15^4\})$ | 19656 |
| 15 | $\mathcal{O}(0; \{3, 5, 15^5\})$ | 18040 |
| 16 | $\mathcal{O}(2; \{16^2\})$ | 524288 |
| 16 | $\mathcal{O}(1; \{2^4, 16^2\})$ | 2048 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 16 | $\mathcal{O}(1; \{2, 4^2, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(0; \{2^8, 16^2\})$ | 8 |
| 16 | $\mathcal{O}(0; \{2^5, 4^2, 16^2\})$ | 32 |
| 16 | $\mathcal{O}(0; \{2^2, 4^4, 16^2\})$ | 128 |
| 16 | $\mathcal{O}(0; \{2^3, 4, 8^2, 16^2\})$ | 256 |
| 16 | $\mathcal{O}(0; \{4^3, 8^2, 16^2\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{2, 8^4, 16^2\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{2, 4, 8, 16^4\})$ | 4096 |
| 17 | $\mathcal{O}(0; \{17^6\})$ | 986896 |
| 18 | $\mathcal{O}(1; \{2^2, 3, 9^2\})$ | 3888 |
| 18 | $\mathcal{O}(1; \{6^2, 9^2\})$ | 7776 |
| 18 | $\mathcal{O}(1; \{3, 9, 18^2\})$ | 11664 |
| 18 | $\mathcal{O}(0; \{2^6, 3, 9^2\})$ | 12 |
| 18 | $\mathcal{O}(0; \{2^2, 3^4, 9^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^3, 3^2, 6, 9^2\})$ | 48 |
| 18 | $\mathcal{O}(0; \{2^4, 6^2, 9^2\})$ | 24 |
| 18 | $\mathcal{O}(0; \{3^3, 6^2, 9^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2, 3, 6^3, 9^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^2, 9^5\})$ | 810 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 9^3, 18\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^2, 6, 9^3, 18\})$ | 324 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 9, 18^2\})$ | 36 |
| 18 | $\mathcal{O}(0; \{3^4, 9, 18^2\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6, 9, 18^2\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^2, 6^2, 9, 18^2\})$ | 72 |
| 18 | $\mathcal{O}(0; \{9^4, 18^2\})$ | 5346 |
| 18 | $\mathcal{O}(0; \{6, 9^2, 18^3\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 18^4\})$ | 324 |
| 18 | $\mathcal{O}(0; \{6^2, 18^4\})$ | 648 |
| 20 | $\mathcal{O}(1; \{4^2, 5^2\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{2, 4, 10, 20\})$ | 3200 |
| 20 | $\mathcal{O}(0; \{2^4, 4^2, 5^2\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2, 4^4, 5^2\})$ | 32 |
| 20 | $\mathcal{O}(0; \{2^2, 4^2, 5, 10^2\})$ | 24 |
| 20 | $\mathcal{O}(0; \{4^2, 10^4\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^2, 4, 5^3, 20\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^5, 4, 10, 20\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^2, 4^3, 10, 20\})$ | 32 |
| 20 | $\mathcal{O}(0; \{4, 5^2, 10^2, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{5^4, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^3, 5, 10, 20^2\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4^2, 5, 10, 20^2\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2, 10^3, 20^2\})$ | 408 |

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Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 20 | $\mathcal{O}(0; \{2^3, 4, 20^3\})$ | 96 |
| 20 | $\mathcal{O}(0; \{4^3, 20^3\})$ | 384 |
| 20 | $\mathcal{O}(0; \{2, 5, 20^4\})$ | 1632 |
| 21 | $\mathcal{O}(0; \{3^2, 7^2, 21^2\})$ | 1116 |
| 22 | $\mathcal{O}(1; \{2^2, 11^2\})$ | 4840 |
| 22 | $\mathcal{O}(1; \{11, 22^2\})$ | 43560 |
| 22 | $\mathcal{O}(0; \{2^6, 11^2\})$ | 10 |
| 22 | $\mathcal{O}(0; \{2^4, 11, 22^2\})$ | 90 |
| 22 | $\mathcal{O}(0; \{2^2, 22^4\})$ | 910 |
| 24 | $\mathcal{O}(1; \{3, 24^2\})$ | 4608 |
| 24 | $\mathcal{O}(0; \{2^3, 3^2, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^2, 4^2, 8^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{3^3, 6, 8^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2, 3, 6^2, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2, 3, 4, 8^2, 12\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^2, 8^2, 12^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{3^3, 4, 8, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2, 3, 4, 6, 8, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 8, 12, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^2, 6, 8, 12, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{8, 12^3, 24\})$ | 192 |
| 24 | $\mathcal{O}(0; \{2^4, 3, 24^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^4, 24^2\})$ | 88 |
| 24 | $\mathcal{O}(0; \{2, 3, 4^2, 24^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 6, 24^2\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2^2, 6^2, 24^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2^2, 4, 12, 24^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{8^2, 12, 24^2\})$ | 256 |
| 24 | $\mathcal{O}(0; \{6, 12^2, 24^2\})$ | 160 |
| 24 | $\mathcal{O}(0; \{6, 8, 24^3\})$ | 384 |
| 24 | $\mathcal{O}(0; \{4, 24^4\})$ | 768 |
| 25 | $\mathcal{O}(0; \{5^2, 25^3\})$ | 4800 |
| 26 | $\mathcal{O}(1; \{2, 13, 26\})$ | 8112 |
| 26 | $\mathcal{O}(0; \{2^5, 13, 26\})$ | 12 |
| 26 | $\mathcal{O}(0; \{2^3, 26^3\})$ | 132 |
| 28 | $\mathcal{O}(0; \{2^2, 4^2, 7^2\})$ | 12 |
| 28 | $\mathcal{O}(0; \{4^2, 7, 14^2\})$ | 60 |
| 28 | $\mathcal{O}(0; \{2, 7, 14, 28^2\})$ | 372 |
| 30 | $\mathcal{O}(0; \{5^3, 6^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 3^2, 5, 15\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2^3, 5, 6, 15\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3, 5, 6^2, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3^2, 10^2, 15\})$ | 24 |

Continued on next page

Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 30 | $\mathcal{O}(0; \{2, 6, 10^2, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 5, 10, 15^2\})$ | 104 |
| 30 | $\mathcal{O}(0; \{3, 5^2, 6, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^3, 3, 15, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3^2, 6, 15, 30\})$ | 40 |
| 30 | $\mathcal{O}(0; \{2, 6^2, 15, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3^2, 5, 30^2\})$ | 72 |
| 30 | $\mathcal{O}(0; \{2, 5, 6, 30^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 3, 30^3\})$ | 72 |
| 31 | $\mathcal{O}(2; \emptyset)$ | 923520 |
| 32 | $\mathcal{O}(1; \{32^2\})$ | 16384 |
| 32 | $\mathcal{O}(0; \{2^4, 32^2\})$ | 16 |
| 32 | $\mathcal{O}(0; \{2, 4^2, 32^2\})$ | 64 |
| 33 | $\mathcal{O}(0; \{3^3, 11, 33\})$ | 60 |
| 33 | $\mathcal{O}(0; \{33^4\})$ | 5460 |
| 34 | $\mathcal{O}(0; \{2^2, 17^3\})$ | 240 |
| 34 | $\mathcal{O}(0; \{17^2, 34^2\})$ | 3856 |
| 35 | $\mathcal{O}(0; \{7, 35^3\})$ | 2232 |
| 36 | $\mathcal{O}(0; \{12^2, 18^2\})$ | 48 |
| 36 | $\mathcal{O}(0; \{9, 12, 18, 36\})$ | 72 |
| 36 | $\mathcal{O}(0; \{9^2, 36^2\})$ | 324 |
| 36 | $\mathcal{O}(0; \{6, 18, 36^2\})$ | 72 |
| 39 | $\mathcal{O}(0; \{3, 39^3\})$ | 792 |
| 40 | $\mathcal{O}(0; \{8^2, 10^2\})$ | 16 |
| 40 | $\mathcal{O}(0; \{5, 8, 10, 40\})$ | 48 |
| 40 | $\mathcal{O}(0; \{4, 8, 20, 40\})$ | 64 |
| 40 | $\mathcal{O}(0; \{5^2, 40^2\})$ | 208 |
| 42 | $\mathcal{O}(0; \{2^2, 3, 7, 21\})$ | 12 |
| 42 | $\mathcal{O}(0; \{6^2, 7, 21\})$ | 12 |
| 42 | $\mathcal{O}(0; \{3, 14^2, 21\})$ | 60 |
| 42 | $\mathcal{O}(0; \{3, 7, 42^2\})$ | 60 |
| 44 | $\mathcal{O}(0; \{4^2, 22^2\})$ | 20 |
| 44 | $\mathcal{O}(0; \{2, 22, 44^2\})$ | 180 |
| 45 | $\mathcal{O}(0; \{5^2, 9^2\})$ | 24 |
| 48 | $\mathcal{O}(0; \{3^2, 48^2\})$ | 48 |
| 48 | $\mathcal{O}(0; \{2, 6, 48^2\})$ | 16 |
| 50 | $\mathcal{O}(0; \{2, 5, 25, 50\})$ | 80 |
| 51 | $\mathcal{O}(0; \{3^2, 17^2\})$ | 32 |
| 52 | $\mathcal{O}(0; \{2, 4, 26, 52\})$ | 24 |
| 62 | $\mathcal{O}(1; \{2^2\})$ | 3840 |
| 64 | $\mathcal{O}(0; \{2^2, 64^2\})$ | 32 |
| 65 | $\mathcal{O}(0; \{65^3\})$ | 1584 |
| 66 | $\mathcal{O}(0; \{2^2, 33^2\})$ | 20 |

Continued on next page

Table 2 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------------|---|
| 66 | $\mathcal{O}(0; \{33, 66^2\})$ | 180 |
| 68 | $\mathcal{O}(0; \{17, 68^2\})$ | 480 |
| 70 | $\mathcal{O}(0; \{14, 35, 70\})$ | 120 |
| 72 | $\mathcal{O}(0; \{9, 72^2\})$ | 72 |
| 78 | $\mathcal{O}(0; \{6, 39, 78\})$ | 24 |
| 80 | $\mathcal{O}(0; \{5, 80^2\})$ | 96 |
| 85 | $\mathcal{O}(0; \{5, 17, 85\})$ | 64 |
| 96 | $\mathcal{O}(0; \{3, 96^2\})$ | 32 |
| 128 | $\mathcal{O}(0; \{2, 128^2\})$ | 64 |
| 130 | $\mathcal{O}(0; \{2, 65, 130\})$ | 48 |

Table 3: 33-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------|---|
| 1 | $\mathcal{O}(33; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(17; \emptyset)$ | 17179869183 |
| 2 | $\mathcal{O}(16; \{2^4\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^8\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{12}\})$ | 268435456 |
| 2 | $\mathcal{O}(13; \{2^{16}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{20}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{24}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{28}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{32}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{36}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{40}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{44}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{48}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{52}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{56}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{60}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{64}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{68}\})$ | 1 |
| 3 | $\mathcal{O}(11; \{3^2\})$ | 62762119218 |
| 3 | $\mathcal{O}(10; \{3^5\})$ | 34867844010 |
| 3 | $\mathcal{O}(9; \{3^8\})$ | 33318162054 |
| 3 | $\mathcal{O}(8; \{3^{11}\})$ | 29357863722 |
| 3 | $\mathcal{O}(7; \{3^{14}\})$ | 26124576678 |
| 3 | $\mathcal{O}(6; \{3^{17}\})$ | 23218657290 |
| 3 | $\mathcal{O}(5; \{3^{20}\})$ | 20639160774 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-----------------------------------|---|
| 3 | $\mathcal{O}(4; \{3^{23}\})$ | 18345881322 |
| 3 | $\mathcal{O}(3; \{3^{26}\})$ | 16307454438 |
| 3 | $\mathcal{O}(2; \{3^{29}\})$ | 14495514570 |
| 3 | $\mathcal{O}(1; \{3^{32}\})$ | 12884901894 |
| 3 | $\mathcal{O}(0; \{3^{35}\})$ | 11453246122 |
| 4 | $\mathcal{O}(9; \emptyset)$ | 68719214592 |
| 4 | $\mathcal{O}(8; \{2^4\})$ | 4294901760 |
| 4 | $\mathcal{O}(8; \{2, 4^2\})$ | 8589934592 |
| 4 | $\mathcal{O}(7; \{2^8\})$ | 268419072 |
| 4 | $\mathcal{O}(7; \{2^5, 4^2\})$ | 536870912 |
| 4 | $\mathcal{O}(7; \{2^2, 4^4\})$ | 2147483648 |
| 4 | $\mathcal{O}(6; \{2^{12}\})$ | 16773120 |
| 4 | $\mathcal{O}(6; \{2^9, 4^2\})$ | 33554432 |
| 4 | $\mathcal{O}(6; \{2^6, 4^4\})$ | 134217728 |
| 4 | $\mathcal{O}(6; \{2^3, 4^6\})$ | 536870912 |
| 4 | $\mathcal{O}(6; \{4^8\})$ | 2147483648 |
| 4 | $\mathcal{O}(5; \{2^{16}\})$ | 1047552 |
| 4 | $\mathcal{O}(5; \{2^{13}, 4^2\})$ | 2097152 |
| 4 | $\mathcal{O}(5; \{2^{10}, 4^4\})$ | 8388608 |
| 4 | $\mathcal{O}(5; \{2^7, 4^6\})$ | 33554432 |
| 4 | $\mathcal{O}(5; \{2^4, 4^8\})$ | 134217728 |
| 4 | $\mathcal{O}(5; \{2, 4^{10}\})$ | 536870912 |
| 4 | $\mathcal{O}(4; \{2^{20}\})$ | 65280 |
| 4 | $\mathcal{O}(4; \{2^{17}, 4^2\})$ | 131072 |
| 4 | $\mathcal{O}(4; \{2^{14}, 4^4\})$ | 524288 |
| 4 | $\mathcal{O}(4; \{2^{11}, 4^6\})$ | 2097152 |
| 4 | $\mathcal{O}(4; \{2^8, 4^8\})$ | 8388608 |
| 4 | $\mathcal{O}(4; \{2^5, 4^{10}\})$ | 33554432 |
| 4 | $\mathcal{O}(4; \{2^2, 4^{12}\})$ | 134217728 |
| 4 | $\mathcal{O}(3; \{2^{24}\})$ | 4032 |
| 4 | $\mathcal{O}(3; \{2^{21}, 4^2\})$ | 8192 |
| 4 | $\mathcal{O}(3; \{2^{18}, 4^4\})$ | 32768 |
| 4 | $\mathcal{O}(3; \{2^{15}, 4^6\})$ | 131072 |
| 4 | $\mathcal{O}(3; \{2^{12}, 4^8\})$ | 524288 |
| 4 | $\mathcal{O}(3; \{2^9, 4^{10}\})$ | 2097152 |
| 4 | $\mathcal{O}(3; \{2^6, 4^{12}\})$ | 8388608 |
| 4 | $\mathcal{O}(3; \{2^3, 4^{14}\})$ | 33554432 |
| 4 | $\mathcal{O}(3; \{4^{16}\})$ | 134217728 |
| 4 | $\mathcal{O}(2; \{2^{28}\})$ | 240 |
| 4 | $\mathcal{O}(2; \{2^{25}, 4^2\})$ | 512 |
| 4 | $\mathcal{O}(2; \{2^{22}, 4^4\})$ | 2048 |
| 4 | $\mathcal{O}(2; \{2^{19}, 4^6\})$ | 8192 |
| 4 | $\mathcal{O}(2; \{2^{16}, 4^8\})$ | 32768 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------|---|
| 4 | $O(2; \{2^{13}, 4^{10}\})$ | 131072 |
| 4 | $O(2; \{2^{10}, 4^{12}\})$ | 524288 |
| 4 | $O(2; \{2^7, 4^{14}\})$ | 2097152 |
| 4 | $O(2; \{2^4, 4^{16}\})$ | 8388608 |
| 4 | $O(2; \{2, 4^{18}\})$ | 33554432 |
| 4 | $O(1; \{2^{32}\})$ | 12 |
| 4 | $O(1; \{2^{29}, 4^2\})$ | 32 |
| 4 | $O(1; \{2^{26}, 4^4\})$ | 128 |
| 4 | $O(1; \{2^{23}, 4^6\})$ | 512 |
| 4 | $O(1; \{2^{20}, 4^8\})$ | 2048 |
| 4 | $O(1; \{2^{17}, 4^{10}\})$ | 8192 |
| 4 | $O(1; \{2^{14}, 4^{12}\})$ | 32768 |
| 4 | $O(1; \{2^{11}, 4^{14}\})$ | 131072 |
| 4 | $O(1; \{2^8, 4^{16}\})$ | 524288 |
| 4 | $O(1; \{2^5, 4^{18}\})$ | 2097152 |
| 4 | $O(1; \{2^2, 4^{20}\})$ | 8388608 |
| 4 | $O(0; \{2^{33}, 4^2\})$ | 2 |
| 4 | $O(0; \{2^{30}, 4^4\})$ | 8 |
| 4 | $O(0; \{2^{27}, 4^6\})$ | 32 |
| 4 | $O(0; \{2^{24}, 4^8\})$ | 128 |
| 4 | $O(0; \{2^{21}, 4^{10}\})$ | 512 |
| 4 | $O(0; \{2^{18}, 4^{12}\})$ | 2048 |
| 4 | $O(0; \{2^{15}, 4^{14}\})$ | 8192 |
| 4 | $O(0; \{2^{12}, 4^{16}\})$ | 32768 |
| 4 | $O(0; \{2^9, 4^{18}\})$ | 131072 |
| 4 | $O(0; \{2^6, 4^{20}\})$ | 524288 |
| 4 | $O(0; \{2^3, 4^{22}\})$ | 2097152 |
| 4 | $O(0; \{4^{24}\})$ | 8388608 |
| 5 | $O(5; \{5^6\})$ | 8007812500 |
| 5 | $O(3; \{5^{11}\})$ | 13107187500 |
| 5 | $O(1; \{5^{16}\})$ | 21474836500 |
| 6 | $O(5; \{3^4\})$ | 362442762 |
| 6 | $O(5; \{2, 3^2, 6\})$ | 120932352 |
| 6 | $O(5; \{2^2, 6^2\})$ | 120932352 |
| 6 | $O(4; \{2^4, 3^4\})$ | 10077696 |
| 6 | $O(4; \{3^7\})$ | 70268310 |
| 6 | $O(4; \{2^5, 3^2, 6\})$ | 3359232 |
| 6 | $O(4; \{2, 3^5, 6\})$ | 36951552 |
| 6 | $O(4; \{2^6, 6^2\})$ | 3359232 |
| 6 | $O(4; \{2^2, 3^3, 6^2\})$ | 16796160 |
| 6 | $O(4; \{2^3, 3, 6^3\})$ | 10077696 |
| 6 | $O(4; \{3^2, 6^4\})$ | 36951552 |
| 6 | $O(4; \{2, 6^5\})$ | 16796160 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------|---|
| 6 | $O(3; \{2^8, 3^4\})$ | 279936 |
| 6 | $O(3; \{2^4, 3^7\})$ | 1959552 |
| 6 | $O(3; \{3^{10}\})$ | 15707034 |
| 6 | $O(3; \{2^9, 3^2, 6\})$ | 93312 |
| 6 | $O(3; \{2^5, 3^5, 6\})$ | 1026432 |
| 6 | $O(3; \{2, 3^8, 6\})$ | 7931520 |
| 6 | $O(3; \{2^{10}, 6^2\})$ | 93312 |
| 6 | $O(3; \{2^6, 3^3, 6^2\})$ | 466560 |
| 6 | $O(3; \{2^2, 3^6, 6^2\})$ | 4012416 |
| 6 | $O(3; \{2^7, 3, 6^3\})$ | 279936 |
| 6 | $O(3; \{2^3, 3^4, 6^3\})$ | 1959552 |
| 6 | $O(3; \{2^4, 3^2, 6^4\})$ | 1026432 |
| 6 | $O(3; \{3^5, 6^4\})$ | 7931520 |
| 6 | $O(3; \{2^5, 6^5\})$ | 466560 |
| 6 | $O(3; \{2, 3^3, 6^5\})$ | 4012416 |
| 6 | $O(3; \{2^2, 3, 6^6\})$ | 1959552 |
| 6 | $O(3; \{6^8\})$ | 4012416 |
| 6 | $O(2; \{2^{12}, 3^4\})$ | 7776 |
| 6 | $O(2; \{2^8, 3^7\})$ | 54432 |
| 6 | $O(2; \{2^4, 3^{10}\})$ | 443232 |
| 6 | $O(2; \{3^{13}\})$ | 3316950 |
| 6 | $O(2; \{2^{13}, 3^2, 6\})$ | 2592 |
| 6 | $O(2; \{2^9, 3^5, 6\})$ | 28512 |
| 6 | $O(2; \{2^5, 3^8, 6\})$ | 220320 |
| 6 | $O(2; \{2, 3^{11}, 6\})$ | 1770336 |
| 6 | $O(2; \{2^{14}, 6^2\})$ | 2592 |
| 6 | $O(2; \{2^{10}, 3^3, 6^2\})$ | 12960 |
| 6 | $O(2; \{2^6, 3^6, 6^2\})$ | 111456 |
| 6 | $O(2; \{2^2, 3^9, 6^2\})$ | 883872 |
| 6 | $O(2; \{2^{11}, 3, 6^3\})$ | 7776 |
| 6 | $O(2; \{2^7, 3^4, 6^3\})$ | 54432 |
| 6 | $O(2; \{2^3, 3^7, 6^3\})$ | 443232 |
| 6 | $O(2; \{2^8, 3^2, 6^4\})$ | 28512 |
| 6 | $O(2; \{2^4, 3^5, 6^4\})$ | 220320 |
| 6 | $O(2; \{3^8, 6^4\})$ | 1770336 |
| 6 | $O(2; \{2^9, 6^5\})$ | 12960 |
| 6 | $O(2; \{2^5, 3^3, 6^5\})$ | 111456 |
| 6 | $O(2; \{2, 3^6, 6^5\})$ | 883872 |
| 6 | $O(2; \{2^6, 3, 6^6\})$ | 54432 |
| 6 | $O(2; \{2^2, 3^4, 6^6\})$ | 443232 |
| 6 | $O(2; \{2^3, 3^2, 6^7\})$ | 220320 |
| 6 | $O(2; \{2^4, 6^8\})$ | 111456 |
| 6 | $O(2; \{3^3, 6^8\})$ | 883872 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(2; \{2, 3, 6^9\})$ | 443232 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3^4\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^7\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^8, 3^{10}\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^4, 3^{13}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{3^{16}\})$ | 589842 |
| 6 | $\mathcal{O}(1; \{2^{17}, 3^2, 6\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^5, 6\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^9, 3^8, 6\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^5, 3^{11}, 6\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2, 3^{14}, 6\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{18}, 6^2\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3^3, 6^2\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^6, 6^2\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^6, 3^9, 6^2\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{12}, 6^2\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{15}, 3, 6^3\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^4, 6^3\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^7, 3^7, 6^3\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^3, 3^{10}, 6^3\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^2, 6^4\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^8, 3^5, 6^4\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^4, 3^8, 6^4\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{3^{11}, 6^4\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{13}, 6^5\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^9, 3^3, 6^5\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^5, 3^6, 6^5\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2, 3^9, 6^5\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3, 6^6\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^6, 3^4, 6^6\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^2, 3^7, 6^6\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^7, 3^2, 6^7\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^3, 3^5, 6^7\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^8, 6^8\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^4, 3^3, 6^8\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{3^6, 6^8\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^5, 3, 6^9\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2, 3^4, 6^9\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^2, 3^2, 6^{10}\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^3, 6^{11}\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{3, 6^{12}\})$ | 98280 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^4\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^7\})$ | 42 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2^{12}, 3^{10}\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{13}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{16}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{21}, 3^2, 6\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^5, 6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^8, 6\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^9, 3^{11}, 6\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{14}, 6\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2, 3^{17}, 6\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{22}, 6^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^3, 6^2\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^6, 6^2\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^9, 6^2\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{12}, 6^2\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{15}, 6^2\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3, 6^3\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^4, 6^3\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^7, 6^3\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{10}, 6^3\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{13}, 6^3\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^2, 6^4\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^5, 6^4\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^8, 3^8, 6^4\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{11}, 6^4\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{3^{14}, 6^4\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{17}, 6^5\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^3, 6^5\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^9, 3^6, 6^5\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^5, 3^9, 6^5\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2, 3^{12}, 6^5\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3, 6^6\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^4, 6^6\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^6, 3^7, 6^6\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{10}, 6^6\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^2, 6^7\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^7, 3^5, 6^7\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^3, 3^8, 6^7\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^{12}, 6^8\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^8, 3^3, 6^8\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^4, 3^6, 6^8\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{3^9, 6^8\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^9, 3, 6^9\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^5, 3^4, 6^9\})$ | 2730 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2, 3^7, 6^9\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^6, 3^2, 6^{10}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^2, 3^5, 6^{10}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^7, 6^{11}\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^3, 3^3, 6^{11}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^4, 3, 6^{12}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{3^4, 6^{12}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2, 3^2, 6^{13}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^2, 6^{14}\})$ | 5462 |
| 7 | $\mathcal{O}(3; \{7^6\})$ | 784248234 |
| 7 | $\mathcal{O}(0; \{7^{13}\})$ | 1865813430 |
| 8 | $\mathcal{O}(5; \emptyset)$ | 1072693248 |
| 8 | $\mathcal{O}(4; \{2^4\})$ | 16711680 |
| 8 | $\mathcal{O}(4; \{2, 4^2\})$ | 33423360 |
| 8 | $\mathcal{O}(3; \{2^8\})$ | 258048 |
| 8 | $\mathcal{O}(3; \{2^5, 4^2\})$ | 516096 |
| 8 | $\mathcal{O}(3; \{2^2, 4^4\})$ | 2064384 |
| 8 | $\mathcal{O}(3; \{2^3, 4, 8^2\})$ | 2097152 |
| 8 | $\mathcal{O}(3; \{4^3, 8^2\})$ | 8388608 |
| 8 | $\mathcal{O}(3; \{2, 8^4\})$ | 16777216 |
| 8 | $\mathcal{O}(2; \{2^{12}\})$ | 3840 |
| 8 | $\mathcal{O}(2; \{2^9, 4^2\})$ | 7680 |
| 8 | $\mathcal{O}(2; \{2^6, 4^4\})$ | 30720 |
| 8 | $\mathcal{O}(2; \{2^3, 4^6\})$ | 122880 |
| 8 | $\mathcal{O}(2; \{4^8\})$ | 491520 |
| 8 | $\mathcal{O}(2; \{2^7, 4, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(2; \{2^4, 4^3, 8^2\})$ | 131072 |
| 8 | $\mathcal{O}(2; \{2, 4^5, 8^2\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{2^5, 8^4\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2^2, 4^2, 8^4\})$ | 1048576 |
| 8 | $\mathcal{O}(2; \{4, 8^6\})$ | 8388608 |
| 8 | $\mathcal{O}(1; \{2^{16}\})$ | 48 |
| 8 | $\mathcal{O}(1; \{2^{13}, 4^2\})$ | 96 |
| 8 | $\mathcal{O}(1; \{2^{10}, 4^4\})$ | 384 |
| 8 | $\mathcal{O}(1; \{2^7, 4^6\})$ | 1536 |
| 8 | $\mathcal{O}(1; \{2^4, 4^8\})$ | 6144 |
| 8 | $\mathcal{O}(1; \{2, 4^{10}\})$ | 24576 |
| 8 | $\mathcal{O}(1; \{2^{11}, 4, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(1; \{2^8, 4^3, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(1; \{2^5, 4^5, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^2, 4^7, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2^9, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^6, 4^2, 8^4\})$ | 16384 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(1; \{2^3, 4^4, 8^4\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{4^6, 8^4\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{2^4, 4, 8^6\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2, 4^3, 8^6\})$ | 524288 |
| 8 | $\mathcal{O}(1; \{2^2, 8^8\})$ | 1048576 |
| 8 | $\mathcal{O}(0; \{2^{15}, 4, 8^2\})$ | 8 |
| 8 | $\mathcal{O}(0; \{2^{12}, 4^3, 8^2\})$ | 32 |
| 8 | $\mathcal{O}(0; \{2^9, 4^5, 8^2\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^6, 4^7, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^3, 4^9, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{4^{11}, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^{13}, 8^4\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^{10}, 4^2, 8^4\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^7, 4^4, 8^4\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^4, 4^6, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2, 4^8, 8^4\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^8, 4, 8^6\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^5, 4^3, 8^6\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^2, 4^5, 8^6\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^6, 8^8\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^3, 4^2, 8^8\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{4^4, 8^8\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{2, 4, 8^{10}\})$ | 524288 |
| 9 | $\mathcal{O}(3; \{3^2, 9^2\})$ | 12754584 |
| 9 | $\mathcal{O}(2; \{3^5, 9^2\})$ | 1259712 |
| 9 | $\mathcal{O}(2; \{3, 9^5\})$ | 10628820 |
| 9 | $\mathcal{O}(1; \{3^8, 9^2\})$ | 124416 |
| 9 | $\mathcal{O}(1; \{3^4, 9^5\})$ | 1049760 |
| 9 | $\mathcal{O}(1; \{9^8\})$ | 15234642 |
| 9 | $\mathcal{O}(0; \{3^{11}, 9^2\})$ | 12288 |
| 9 | $\mathcal{O}(0; \{3^7, 9^5\})$ | 103680 |
| 9 | $\mathcal{O}(0; \{3^3, 9^8\})$ | 1504656 |
| 10 | $\mathcal{O}(3; \{5^3\})$ | 11812500 |
| 10 | $\mathcal{O}(2; \{2^4, 5^3\})$ | 120000 |
| 10 | $\mathcal{O}(2; \{2^2, 5^2, 10^2\})$ | 520000 |
| 10 | $\mathcal{O}(2; \{5, 10^4\})$ | 2040000 |
| 10 | $\mathcal{O}(1; \{2^8, 5^3\})$ | 1200 |
| 10 | $\mathcal{O}(1; \{5^8\})$ | 983100 |
| 10 | $\mathcal{O}(1; \{2^3, 5^5, 10\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^6, 5^2, 10^2\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{2, 5^4, 10^3\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^4, 5, 10^4\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2^2, 10^6\})$ | 82000 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 10 | $\mathcal{O}(0; \{2^{12}, 5^3\})$ | 12 |
| 10 | $\mathcal{O}(0; \{2^4, 5^8\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^7, 5^5, 10\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2^{10}, 5^2, 10^2\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^2, 5^7, 10^2\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^5, 5^4, 10^3\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^8, 5, 10^4\})$ | 204 |
| 10 | $\mathcal{O}(0; \{5^6, 10^4\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^3, 5^3, 10^5\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^6, 10^6\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2, 5^2, 10^7\})$ | 52428 |
| 11 | $\mathcal{O}(3; \{11^2\})$ | 17715610 |
| 12 | $\mathcal{O}(3; \{3^2\})$ | 5878656 |
| 12 | $\mathcal{O}(2; \{2^4, 3^2\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{3^5\})$ | 194400 |
| 12 | $\mathcal{O}(2; \{2, 3^2, 4^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 3^3, 6\})$ | 116640 |
| 12 | $\mathcal{O}(2; \{2^2, 3, 6^2\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{6^4\})$ | 116640 |
| 12 | $\mathcal{O}(2; \{2^2, 3, 4, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{4, 6^2, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^3, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{4^2, 12^2\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{3, 6, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(1; \{2^8, 3^2\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^4, 3^5\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{3^8\})$ | 9288 |
| 12 | $\mathcal{O}(1; \{2^5, 3^2, 4^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^5, 4^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4^4\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^5, 3^3, 6\})$ | 648 |
| 12 | $\mathcal{O}(1; \{2, 3^6, 6\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 4^2, 6\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^6, 3, 6^2\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^2, 3^4, 6^2\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4^2, 6^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3, 4^4, 6^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 6^3\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{3^2, 4^2, 6^3\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^4, 6^4\})$ | 648 |
| 12 | $\mathcal{O}(1; \{3^3, 6^4\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2, 4^2, 6^4\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2, 3, 6^5\})$ | 2376 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2^6, 3, 4, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^4, 4, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4^3, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3, 4^5, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 4, 6, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^2, 4^3, 6, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^4, 4, 6^2, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^3, 4, 6^2, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2, 4^3, 6^2, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 3, 4, 6^3, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^7, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^3, 3^3, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^4, 4^2, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^3, 4^2, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2, 4^4, 12^2\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 6, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^4, 6, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^2, 6, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 6^2, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 6^3, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^2, 4, 6, 12^3\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 12^4\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{6^2, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{4, 12^5\})$ | 46080 |
| 12 | $\mathcal{O}(0; \{2^9, 3^2, 4^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^5, 4^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^8, 4^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4^4\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^2, 4^8\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 4^2, 6\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 4^2, 6\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^4, 6\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^3, 4^6, 6\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4^2, 6^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4^2, 6^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^4, 6^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{3^4, 4^4, 6^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^6, 6^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^2, 6^3\})$ | 20 |
| 12 | $\mathcal{O}(0; \{3^5, 4^2, 6^3\})$ | 172 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^4, 6^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^5, 4^2, 6^4\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^2, 6^4\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^2, 4^4, 6^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^2, 6^5\})$ | 44 |
| 12 | $\mathcal{O}(0; \{4^2, 6^7\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^{10}, 3, 4, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^4, 4, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^7, 4, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4^3, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4^3, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^5, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^4, 4^5, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^7, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 4, 6, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 4, 6, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^3, 6, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^5, 4^3, 6, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^5, 6, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^8, 4, 6^2, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4, 6^2, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^6, 4, 6^2, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^5, 4^3, 6^2, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^3, 6^2, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 4^5, 6^2, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4, 6^3, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4, 6^3, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^3, 6^3, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4, 6^4, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 4, 6^5, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{4^3, 6^5, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3, 4, 6^6, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^{11}, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^7, 3^3, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^8, 4^2, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4^2, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^6, 4^2, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^5, 4^4, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^4, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 4^6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 6, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 6, 12^2\})$ | 84 |

Continued on next page

Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{3^7, 6, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^2, 6, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^2, 6, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^4, 6, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 6^2, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 6^2, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^2, 6^2, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^6, 6^3, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 6^3, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 4^2, 6^3, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{4^4, 6^3, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 6^4, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3, 4^2, 6^4, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^2, 6^5, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 6^6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^3, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^6, 4, 6, 12^3\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4, 6, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 4^3, 6, 12^3\})$ | 192 |
| 12 | $\mathcal{O}(0; \{4^5, 6, 12^3\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4, 6^2, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3, 4^3, 6^2, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3^2, 4, 6^3, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 4, 6^4, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 12^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^2, 12^4\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3, 4^4, 12^4\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 6, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^2, 4^2, 6, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^4, 6^2, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^3, 6^2, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 4^2, 6^2, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3, 6^3, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^4, 4, 12^5\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3^3, 4, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2, 4^3, 12^5\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2, 3, 4, 6, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 12^6\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^2, 6, 12^6\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{12^8\})$ | 11008 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 14 | $\mathcal{O}(2; \{7^3\})$ | 1080450 |
| 14 | $\mathcal{O}(1; \{2^4, 7^3\})$ | 5880 |
| 14 | $\mathcal{O}(1; \{2^2, 7^2, 14^2\})$ | 36456 |
| 14 | $\mathcal{O}(1; \{7, 14^4\})$ | 217560 |
| 14 | $\mathcal{O}(0; \{2^8, 7^3\})$ | 30 |
| 14 | $\mathcal{O}(0; \{2, 7^6, 14\})$ | 39990 |
| 14 | $\mathcal{O}(0; \{2^6, 7^2, 14^2\})$ | 186 |
| 14 | $\mathcal{O}(0; \{2^4, 7, 14^4\})$ | 1110 |
| 14 | $\mathcal{O}(0; \{2^2, 14^6\})$ | 6666 |
| 15 | $\mathcal{O}(1; \{3^4, 5^2\})$ | 5400 |
| 15 | $\mathcal{O}(1; \{5^3, 15^2\})$ | 91800 |
| 15 | $\mathcal{O}(1; \{3, 5, 15^3\})$ | 70200 |
| 15 | $\mathcal{O}(0; \{3^7, 5^2\})$ | 168 |
| 15 | $\mathcal{O}(0; \{3^2, 5^5, 15\})$ | 1640 |
| 15 | $\mathcal{O}(0; \{3^3, 5^3, 15^2\})$ | 2040 |
| 15 | $\mathcal{O}(0; \{3^4, 5, 15^3\})$ | 2184 |
| 15 | $\mathcal{O}(0; \{5^2, 15^5\})$ | 32760 |
| 15 | $\mathcal{O}(0; \{3, 15^6\})$ | 34440 |
| 16 | $\mathcal{O}(3; \emptyset)$ | 16515072 |
| 16 | $\mathcal{O}(2; \{2^4\})$ | 61440 |
| 16 | $\mathcal{O}(2; \{2, 4^2\})$ | 122880 |
| 16 | $\mathcal{O}(1; \{2^8\})$ | 192 |
| 16 | $\mathcal{O}(1; \{2^5, 4^2\})$ | 384 |
| 16 | $\mathcal{O}(1; \{2^2, 4^4\})$ | 1536 |
| 16 | $\mathcal{O}(1; \{2^3, 4, 8^2\})$ | 1536 |
| 16 | $\mathcal{O}(1; \{4^3, 8^2\})$ | 6144 |
| 16 | $\mathcal{O}(1; \{2, 8^4\})$ | 12288 |
| 16 | $\mathcal{O}(1; \{2, 4, 8, 16^2\})$ | 16384 |
| 16 | $\mathcal{O}(0; \{2^5, 4, 8, 16^2\})$ | 64 |
| 16 | $\mathcal{O}(0; \{2^2, 4^3, 8, 16^2\})$ | 256 |
| 16 | $\mathcal{O}(0; \{2^3, 8^3, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{4^2, 8^3, 16^2\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{2^3, 4, 16^4\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{4^3, 16^4\})$ | 4096 |
| 16 | $\mathcal{O}(0; \{2, 8^2, 16^4\})$ | 8192 |
| 17 | $\mathcal{O}(1; \{17^4\})$ | 1114384 |
| 18 | $\mathcal{O}(1; \{9^4\})$ | 39366 |
| 18 | $\mathcal{O}(1; \{6, 9^2, 18\})$ | 11664 |
| 18 | $\mathcal{O}(1; \{2^2, 3, 18^2\})$ | 3888 |
| 18 | $\mathcal{O}(1; \{6^2, 18^2\})$ | 7776 |
| 18 | $\mathcal{O}(0; \{2^4, 9^4\})$ | 162 |
| 18 | $\mathcal{O}(0; \{2, 3, 6, 9^4\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^3, 3^2, 9^2, 18\})$ | 72 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 18 | $\mathcal{O}(0; \{2^4, 6, 9^2, 18\})$ | 36 |
| 18 | $\mathcal{O}(0; \{3^3, 6, 9^2, 18\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2, 3, 6^2, 9^2, 18\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^6, 3, 18^2\})$ | 12 |
| 18 | $\mathcal{O}(0; \{2^2, 3^4, 18^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^3, 3^2, 6, 18^2\})$ | 48 |
| 18 | $\mathcal{O}(0; \{2^4, 6^2, 18^2\})$ | 24 |
| 18 | $\mathcal{O}(0; \{3^3, 6^2, 18^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2, 3, 6^3, 18^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^2, 9^3, 18^2\})$ | 810 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 9, 18^3\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^2, 6, 9, 18^3\})$ | 324 |
| 18 | $\mathcal{O}(0; \{9^2, 18^4\})$ | 5346 |
| 18 | $\mathcal{O}(0; \{6, 18^5\})$ | 1620 |
| 20 | $\mathcal{O}(1; \{5^4\})$ | 15600 |
| 20 | $\mathcal{O}(1; \{2^3, 5, 10\})$ | 1200 |
| 20 | $\mathcal{O}(1; \{4^2, 5, 10\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{2, 10^3\})$ | 3600 |
| 20 | $\mathcal{O}(1; \{2, 5, 20^2\})$ | 9600 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 5^4\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^4, 4^2, 5, 10\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2, 4^4, 5, 10\})$ | 32 |
| 20 | $\mathcal{O}(0; \{2^2, 4^2, 10^3\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2^2, 4, 5^2, 10, 20\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4, 5, 10^3, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^5, 5, 20^2\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2^2, 4^2, 5, 20^2\})$ | 96 |
| 20 | $\mathcal{O}(0; \{5^3, 10, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^3, 10^2, 20^2\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4^2, 10^2, 20^2\})$ | 416 |
| 20 | $\mathcal{O}(0; \{4, 5^2, 20^3\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{2, 10, 20^4\})$ | 1632 |
| 21 | $\mathcal{O}(1; \{3^2, 7^2\})$ | 5292 |
| 21 | $\mathcal{O}(0; \{3^5, 7^2\})$ | 60 |
| 21 | $\mathcal{O}(0; \{3, 7^4, 21\})$ | 2220 |
| 21 | $\mathcal{O}(0; \{3^2, 7, 21^3\})$ | 1860 |
| 22 | $\mathcal{O}(1; \{2^2, 22^2\})$ | 4840 |
| 22 | $\mathcal{O}(0; \{2^6, 22^2\})$ | 10 |
| 23 | $\mathcal{O}(0; \{23^5\})$ | 224070 |
| 24 | $\mathcal{O}(1; \{3^4\})$ | 2592 |
| 24 | $\mathcal{O}(1; \{2, 3^2, 6\})$ | 864 |
| 24 | $\mathcal{O}(1; \{2^2, 6^2\})$ | 864 |
| 24 | $\mathcal{O}(1; \{6, 12^2\})$ | 1728 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 24 | $\mathcal{O}(1; \{6, 8, 24\})$ | 4608 |
| 24 | $\mathcal{O}(1; \{4, 24^2\})$ | 9216 |
| 24 | $\mathcal{O}(0; \{3^2, 4, 6, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2, 4, 6^2, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3^3, 8^2, 12\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2, 3, 6, 8^2, 12\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2^3, 3^2, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^2, 4^2, 8, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^4, 6, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^3, 6, 8, 24\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2, 4^2, 6, 8, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 3, 6^2, 8, 24\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2, 3, 4, 8, 12, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^2, 8, 12^2, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^4, 4, 24^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3^3, 4, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2, 4^3, 24^2\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2, 3, 4, 6, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^2, 8^2, 24^2\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 12, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2^2, 6, 12, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{12^3, 24^2\})$ | 320 |
| 24 | $\mathcal{O}(0; \{8, 12, 24^3\})$ | 768 |
| 24 | $\mathcal{O}(0; \{6, 24^4\})$ | 640 |
| 27 | $\mathcal{O}(0; \{3, 9^2, 27^2\})$ | 1296 |
| 28 | $\mathcal{O}(1; \{2, 7, 14\})$ | 3528 |
| 28 | $\mathcal{O}(0; \{2^2, 4^2, 7, 14\})$ | 12 |
| 28 | $\mathcal{O}(0; \{4^2, 14^3\})$ | 60 |
| 28 | $\mathcal{O}(0; \{4, 7^3, 28\})$ | 372 |
| 28 | $\mathcal{O}(0; \{2^3, 7, 28^2\})$ | 60 |
| 28 | $\mathcal{O}(0; \{4^2, 7, 28^2\})$ | 240 |
| 28 | $\mathcal{O}(0; \{2, 14^2, 28^2\})$ | 372 |
| 30 | $\mathcal{O}(0; \{2^2, 3^2, 10^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3, 6^2, 10^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3, 5, 6, 10, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 6, 15^3\})$ | 72 |
| 30 | $\mathcal{O}(0; \{3, 5^2, 10, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{3^2, 10, 15, 30\})$ | 72 |
| 30 | $\mathcal{O}(0; \{2, 6, 10, 15, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 5, 15^2, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2, 5, 10, 30^2\})$ | 104 |
| 32 | $\mathcal{O}(2; \emptyset)$ | 983040 |
| 32 | $\mathcal{O}(1; \{2^4\})$ | 768 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 32 | $\mathcal{O}(1; \{2, 4^2\})$ | 1536 |
| 33 | $\mathcal{O}(1; \{33^2\})$ | 21780 |
| 33 | $\mathcal{O}(0; \{3^3, 33^2\})$ | 100 |
| 34 | $\mathcal{O}(1; \{17^2\})$ | 13872 |
| 34 | $\mathcal{O}(0; \{2^4, 17^2\})$ | 16 |
| 34 | $\mathcal{O}(0; \{2^2, 17, 34^2\})$ | 240 |
| 34 | $\mathcal{O}(0; \{34^4\})$ | 3856 |
| 36 | $\mathcal{O}(1; \{9^2\})$ | 5832 |
| 36 | $\mathcal{O}(0; \{2, 4^2, 9^2\})$ | 12 |
| 36 | $\mathcal{O}(0; \{2, 3, 4, 9, 36\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2^2, 9, 12, 36\})$ | 24 |
| 36 | $\mathcal{O}(0; \{12, 18^2, 36\})$ | 72 |
| 36 | $\mathcal{O}(0; \{2, 3^2, 36^2\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2^2, 6, 36^2\})$ | 24 |
| 36 | $\mathcal{O}(0; \{12^2, 36^2\})$ | 192 |
| 36 | $\mathcal{O}(0; \{9, 18, 36^2\})$ | 324 |
| 40 | $\mathcal{O}(1; \{5^2\})$ | 4800 |
| 40 | $\mathcal{O}(0; \{8^2, 10, 20\})$ | 32 |
| 40 | $\mathcal{O}(0; \{5, 8, 20, 40\})$ | 96 |
| 40 | $\mathcal{O}(0; \{4, 10, 40^2\})$ | 96 |
| 42 | $\mathcal{O}(0; \{6^2, 14^2\})$ | 12 |
| 42 | $\mathcal{O}(0; \{6, 7^2, 42\})$ | 60 |
| 42 | $\mathcal{O}(0; \{3, 14, 21, 42\})$ | 60 |
| 44 | $\mathcal{O}(0; \{2^3, 44^2\})$ | 20 |
| 44 | $\mathcal{O}(0; \{4^2, 44^2\})$ | 80 |
| 45 | $\mathcal{O}(0; \{3, 5, 45^2\})$ | 144 |
| 46 | $\mathcal{O}(0; \{2, 23^2, 46\})$ | 462 |
| 48 | $\mathcal{O}(1; \{3^2\})$ | 3456 |
| 48 | $\mathcal{O}(0; \{3, 4, 16, 48\})$ | 32 |
| 48 | $\mathcal{O}(0; \{2, 12, 16, 48\})$ | 32 |
| 48 | $\mathcal{O}(0; \{2, 8, 48^2\})$ | 64 |
| 51 | $\mathcal{O}(0; \{3^2, 17, 51\})$ | 32 |
| 64 | $\mathcal{O}(1; \{2^2\})$ | 3072 |
| 66 | $\mathcal{O}(0; \{2^2, 66^2\})$ | 20 |
| 67 | $\mathcal{O}(0; \{67^3\})$ | 4290 |
| 68 | $\mathcal{O}(0; \{34, 68^2\})$ | 480 |
| 69 | $\mathcal{O}(0; \{23, 69^2\})$ | 924 |
| 72 | $\mathcal{O}(0; \{18, 24, 72\})$ | 48 |
| 72 | $\mathcal{O}(0; \{12, 72^2\})$ | 96 |
| 77 | $\mathcal{O}(0; \{7, 77^2\})$ | 300 |
| 84 | $\mathcal{O}(0; \{7, 12, 84\})$ | 24 |
| 88 | $\mathcal{O}(0; \{4, 88^2\})$ | 80 |
| 92 | $\mathcal{O}(0; \{4, 23, 92\})$ | 44 |

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Table 3 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------------|---|
| 99 | $\mathcal{O}(0; \{3, 99^2\})$ | 120 |
| 102 | $\mathcal{O}(0; \{3, 34, 102\})$ | 32 |
| 132 | $\mathcal{O}(0; \{2, 132^2\})$ | 40 |
| 134 | $\mathcal{O}(0; \{2, 67, 134\})$ | 66 |

Table 4: 34-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------|---|
| 1 | $\mathcal{O}(34; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(17; \{2^2\})$ | 17179869184 |
| 2 | $\mathcal{O}(16; \{2^6\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^{10}\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{14}\})$ | 268435456 |
| 2 | $\mathcal{O}(13; \{2^{18}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{22}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{26}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{30}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{34}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{38}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{42}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{46}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{50}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{54}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{58}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{62}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{66}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{70}\})$ | 1 |
| 3 | $\mathcal{O}(12; \emptyset)$ | 282429536480 |
| 3 | $\mathcal{O}(11; \{3^3\})$ | 62762119218 |
| 3 | $\mathcal{O}(10; \{3^6\})$ | 76709256822 |
| 3 | $\mathcal{O}(9; \{3^9\})$ | 65861483130 |
| 3 | $\mathcal{O}(8; \{3^{12}\})$ | 58801820886 |
| 3 | $\mathcal{O}(7; \{3^{15}\})$ | 52239587418 |
| 3 | $\mathcal{O}(6; \{3^{18}\})$ | 46438377462 |
| 3 | $\mathcal{O}(5; \{3^{21}\})$ | 41278203450 |
| 3 | $\mathcal{O}(4; \{3^{24}\})$ | 36691775766 |
| 3 | $\mathcal{O}(3; \{3^{27}\})$ | 32614907418 |
| 3 | $\mathcal{O}(2; \{3^{30}\})$ | 28991029302 |
| 3 | $\mathcal{O}(1; \{3^{33}\})$ | 25769803770 |
| 3 | $\mathcal{O}(0; \{3^{36}\})$ | 22906492246 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(8; \{2^2, 4^2\})$ | 8589934592 |
| 4 | $\mathcal{O}(7; \{2^6, 4^2\})$ | 536870912 |
| 4 | $\mathcal{O}(7; \{2^3, 4^4\})$ | 2147483648 |
| 4 | $\mathcal{O}(7; \{4^6\})$ | 8589934592 |
| 4 | $\mathcal{O}(6; \{2^{10}, 4^2\})$ | 33554432 |
| 4 | $\mathcal{O}(6; \{2^7, 4^4\})$ | 134217728 |
| 4 | $\mathcal{O}(6; \{2^4, 4^6\})$ | 536870912 |
| 4 | $\mathcal{O}(6; \{2, 4^8\})$ | 2147483648 |
| 4 | $\mathcal{O}(5; \{2^{14}, 4^2\})$ | 2097152 |
| 4 | $\mathcal{O}(5; \{2^{11}, 4^4\})$ | 8388608 |
| 4 | $\mathcal{O}(5; \{2^8, 4^6\})$ | 33554432 |
| 4 | $\mathcal{O}(5; \{2^5, 4^8\})$ | 134217728 |
| 4 | $\mathcal{O}(5; \{2^2, 4^{10}\})$ | 536870912 |
| 4 | $\mathcal{O}(4; \{2^{18}, 4^2\})$ | 131072 |
| 4 | $\mathcal{O}(4; \{2^{15}, 4^4\})$ | 524288 |
| 4 | $\mathcal{O}(4; \{2^{12}, 4^6\})$ | 2097152 |
| 4 | $\mathcal{O}(4; \{2^9, 4^8\})$ | 8388608 |
| 4 | $\mathcal{O}(4; \{2^6, 4^{10}\})$ | 33554432 |
| 4 | $\mathcal{O}(4; \{2^3, 4^{12}\})$ | 134217728 |
| 4 | $\mathcal{O}(4; \{4^{14}\})$ | 536870912 |
| 4 | $\mathcal{O}(3; \{2^{22}, 4^2\})$ | 8192 |
| 4 | $\mathcal{O}(3; \{2^{19}, 4^4\})$ | 32768 |
| 4 | $\mathcal{O}(3; \{2^{16}, 4^6\})$ | 131072 |
| 4 | $\mathcal{O}(3; \{2^{13}, 4^8\})$ | 524288 |
| 4 | $\mathcal{O}(3; \{2^{10}, 4^{10}\})$ | 2097152 |
| 4 | $\mathcal{O}(3; \{2^7, 4^{12}\})$ | 8388608 |
| 4 | $\mathcal{O}(3; \{2^4, 4^{14}\})$ | 33554432 |
| 4 | $\mathcal{O}(3; \{2, 4^{16}\})$ | 134217728 |
| 4 | $\mathcal{O}(2; \{2^{26}, 4^2\})$ | 512 |
| 4 | $\mathcal{O}(2; \{2^{23}, 4^4\})$ | 2048 |
| 4 | $\mathcal{O}(2; \{2^{20}, 4^6\})$ | 8192 |
| 4 | $\mathcal{O}(2; \{2^{17}, 4^8\})$ | 32768 |
| 4 | $\mathcal{O}(2; \{2^{14}, 4^{10}\})$ | 131072 |
| 4 | $\mathcal{O}(2; \{2^{11}, 4^{12}\})$ | 524288 |
| 4 | $\mathcal{O}(2; \{2^8, 4^{14}\})$ | 2097152 |
| 4 | $\mathcal{O}(2; \{2^5, 4^{16}\})$ | 8388608 |
| 4 | $\mathcal{O}(2; \{2^2, 4^{18}\})$ | 33554432 |
| 4 | $\mathcal{O}(1; \{2^{30}, 4^2\})$ | 32 |
| 4 | $\mathcal{O}(1; \{2^{27}, 4^4\})$ | 128 |
| 4 | $\mathcal{O}(1; \{2^{24}, 4^6\})$ | 512 |
| 4 | $\mathcal{O}(1; \{2^{21}, 4^8\})$ | 2048 |
| 4 | $\mathcal{O}(1; \{2^{18}, 4^{10}\})$ | 8192 |
| 4 | $\mathcal{O}(1; \{2^{15}, 4^{12}\})$ | 32768 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(1; \{2^{12}, 4^{14}\})$ | 131072 |
| 4 | $\mathcal{O}(1; \{2^9, 4^{16}\})$ | 524288 |
| 4 | $\mathcal{O}(1; \{2^6, 4^{18}\})$ | 2097152 |
| 4 | $\mathcal{O}(1; \{2^3, 4^{20}\})$ | 8388608 |
| 4 | $\mathcal{O}(1; \{4^{22}\})$ | 33554432 |
| 4 | $\mathcal{O}(0; \{2^{34}, 4^2\})$ | 2 |
| 4 | $\mathcal{O}(0; \{2^{31}, 4^4\})$ | 8 |
| 4 | $\mathcal{O}(0; \{2^{28}, 4^6\})$ | 32 |
| 4 | $\mathcal{O}(0; \{2^{25}, 4^8\})$ | 128 |
| 4 | $\mathcal{O}(0; \{2^{22}, 4^{10}\})$ | 512 |
| 4 | $\mathcal{O}(0; \{2^{19}, 4^{12}\})$ | 2048 |
| 4 | $\mathcal{O}(0; \{2^{16}, 4^{14}\})$ | 8192 |
| 4 | $\mathcal{O}(0; \{2^{13}, 4^{16}\})$ | 32768 |
| 4 | $\mathcal{O}(0; \{2^{10}, 4^{18}\})$ | 131072 |
| 4 | $\mathcal{O}(0; \{2^7, 4^{20}\})$ | 524288 |
| 4 | $\mathcal{O}(0; \{2^4, 4^{22}\})$ | 2097152 |
| 4 | $\mathcal{O}(0; \{2, 4^{24}\})$ | 8388608 |
| 5 | $\mathcal{O}(6; \{5^4\})$ | 12695312500 |
| 5 | $\mathcal{O}(4; \{5^9\})$ | 20479687500 |
| 5 | $\mathcal{O}(2; \{5^{14}\})$ | 33554432500 |
| 5 | $\mathcal{O}(0; \{5^{19}\})$ | 54975581388 |
| 6 | $\mathcal{O}(6; \{2^2\})$ | 2176778240 |
| 6 | $\mathcal{O}(5; \{2^6\})$ | 60465152 |
| 6 | $\mathcal{O}(5; \{2^2, 3^3\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{2^3, 3, 6\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{3^2, 6^2\})$ | 362797056 |
| 6 | $\mathcal{O}(5; \{2, 6^3\})$ | 120932352 |
| 6 | $\mathcal{O}(4; \{2^{10}\})$ | 1679360 |
| 6 | $\mathcal{O}(4; \{2^6, 3^3\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^2, 3^6\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2^7, 3, 6\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^3, 3^4, 6\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^4, 3^2, 6^2\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{3^5, 6^2\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^5, 6^3\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2, 3^3, 6^3\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2^2, 3, 6^4\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{6^6\})$ | 36951552 |
| 6 | $\mathcal{O}(3; \{2^{14}\})$ | 46592 |
| 6 | $\mathcal{O}(3; \{2^{10}, 3^3\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^6, 3^6\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^2, 3^9\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^{11}, 3, 6\})$ | 93312 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(3; \{2^7, 3^4, 6\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^3, 3^7, 6\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^8, 3^2, 6^2\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^4, 3^5, 6^2\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{3^8, 6^2\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^9, 6^3\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^5, 3^3, 6^3\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2, 3^6, 6^3\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^6, 3, 6^4\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^2, 3^4, 6^4\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^3, 3^2, 6^5\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^4, 6^6\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{3^3, 6^6\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2, 3, 6^7\})$ | 4012416 |
| 6 | $\mathcal{O}(2; \{2^{18}\})$ | 1280 |
| 6 | $\mathcal{O}(2; \{2^{14}, 3^3\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3^6\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^6, 3^9\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^2, 3^{12}\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2^{15}, 3, 6\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{11}, 3^4, 6\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^7, 3^7, 6\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^3, 3^{10}, 6\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^{12}, 3^2, 6^2\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^8, 3^5, 6^2\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^4, 3^8, 6^2\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{3^{11}, 6^2\})$ | 3538080 |
| 6 | $\mathcal{O}(2; \{2^{13}, 6^3\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^9, 3^3, 6^3\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^5, 3^6, 6^3\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2, 3^9, 6^3\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3, 6^4\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^6, 3^4, 6^4\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^2, 3^7, 6^4\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^7, 3^2, 6^5\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^3, 3^5, 6^5\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^8, 6^6\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^4, 3^3, 6^6\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{3^6, 6^6\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2^5, 3, 6^7\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2, 3^4, 6^7\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^2, 3^2, 6^8\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^3, 6^9\})$ | 220320 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(2; \{3, 6^{10}\})$ | 883872 |
| 6 | $\mathcal{O}(1; \{2^{22}\})$ | 32 |
| 6 | $\mathcal{O}(1; \{2^{18}, 3^3\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3^6\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^9\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^6, 3^{12}\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{15}\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{19}, 3, 6\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{15}, 3^4, 6\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^7, 6\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^7, 3^{10}, 6\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^3, 3^{13}, 6\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3^2, 6^2\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^5, 6^2\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^8, 3^8, 6^2\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^4, 3^{11}, 6^2\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{3^{14}, 6^2\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^{17}, 6^3\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^3, 6^3\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^9, 3^6, 6^3\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^5, 3^9, 6^3\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2, 3^{12}, 6^3\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3, 6^4\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^4, 6^4\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^6, 3^7, 6^4\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{10}, 6^4\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^2, 6^5\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^7, 3^5, 6^5\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^3, 3^8, 6^5\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^{12}, 6^6\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^8, 3^3, 6^6\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^4, 3^6, 6^6\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{3^9, 6^6\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^9, 3, 6^7\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^5, 3^4, 6^7\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2, 3^7, 6^7\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^6, 3^2, 6^8\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^2, 3^5, 6^8\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^7, 6^9\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^3, 3^3, 6^9\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^4, 3, 6^{10}\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{3^4, 6^{10}\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2, 3^2, 6^{11}\})$ | 98280 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(1; \{2^2, 6^{12}\})$ | 49176 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3^3\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^9\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{12}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{15}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{18}\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{23}, 3, 6\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^4, 6\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^7, 6\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^{10}, 6\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{13}, 6\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{16}, 6\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^2, 6^2\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^5, 6^2\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^8, 6^2\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{11}, 6^2\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{14}, 6^2\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{3^{17}, 6^2\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{21}, 6^3\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^3, 6^3\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^6, 6^3\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^9, 3^9, 6^3\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{12}, 6^3\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2, 3^{15}, 6^3\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3, 6^4\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^4, 6^4\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^7, 6^4\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{10}, 6^4\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{13}, 6^4\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^2, 6^5\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^5, 6^5\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^7, 3^8, 6^5\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{11}, 6^5\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{16}, 6^6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^3, 6^6\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^8, 3^6, 6^6\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^4, 3^9, 6^6\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{3^{12}, 6^6\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3, 6^7\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^9, 3^4, 6^7\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^5, 3^7, 6^7\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2, 3^{10}, 6^7\})$ | 43690 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2^{10}, 3^2, 6^8\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^6, 3^5, 6^8\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^2, 3^8, 6^8\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{11}, 6^9\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^7, 3^3, 6^9\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^3, 3^6, 6^9\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^8, 3, 6^{10}\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^4, 3^4, 6^{10}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{3^7, 6^{10}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^5, 3^2, 6^{11}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2, 3^5, 6^{11}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^6, 6^{12}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^2, 3^3, 6^{12}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^3, 3, 6^{13}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{3^2, 6^{14}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2, 6^{15}\})$ | 10922 |
| 7 | $\mathcal{O}(4; \{7^4\})$ | 1072252986 |
| 7 | $\mathcal{O}(1; \{7^{11}\})$ | 2539579350 |
| 8 | $\mathcal{O}(4; \{2, 8^2\})$ | 67108864 |
| 8 | $\mathcal{O}(3; \{2^5, 8^2\})$ | 1048576 |
| 8 | $\mathcal{O}(3; \{2^2, 4^2, 8^2\})$ | 4194304 |
| 8 | $\mathcal{O}(3; \{4, 8^4\})$ | 33554432 |
| 8 | $\mathcal{O}(2; \{2^9, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(2; \{2^6, 4^2, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(2; \{2^3, 4^4, 8^2\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{4^6, 8^2\})$ | 1048576 |
| 8 | $\mathcal{O}(2; \{2^4, 4, 8^4\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{2, 4^3, 8^4\})$ | 2097152 |
| 8 | $\mathcal{O}(2; \{2^2, 8^6\})$ | 4194304 |
| 8 | $\mathcal{O}(1; \{2^{13}, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(1; \{2^{10}, 4^2, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(1; \{2^7, 4^4, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^4, 4^6, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(1; \{2, 4^8, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^8, 4, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^5, 4^3, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2^2, 4^5, 8^4\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^6, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^3, 4^2, 8^6\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{4^4, 8^6\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{2, 4, 8^8\})$ | 2097152 |
| 8 | $\mathcal{O}(0; \{2^{17}, 8^2\})$ | 4 |
| 8 | $\mathcal{O}(0; \{2^{14}, 4^2, 8^2\})$ | 16 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(0; \{2^{11}, 4^4, 8^2\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^8, 4^6, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^5, 4^8, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^2, 4^{10}, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^{12}, 4, 8^4\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^9, 4^3, 8^4\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^6, 4^5, 8^4\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^3, 4^7, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{4^9, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^{10}, 8^6\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^7, 4^2, 8^6\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^4, 4^4, 8^6\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2, 4^6, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{2^5, 4, 8^8\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^2, 4^3, 8^8\})$ | 131072 |
| 8 | $\mathcal{O}(0; \{2^3, 8^{10}\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{4^2, 8^{10}\})$ | 1048576 |
| 9 | $\mathcal{O}(4; \{3^2\})$ | 86080320 |
| 9 | $\mathcal{O}(3; \{3^5\})$ | 5307120 |
| 9 | $\mathcal{O}(3; \{3, 9^3\})$ | 19131876 |
| 9 | $\mathcal{O}(2; \{3^8\})$ | 557280 |
| 9 | $\mathcal{O}(2; \{3^4, 9^3\})$ | 1889568 |
| 9 | $\mathcal{O}(2; \{9^6\})$ | 35075106 |
| 9 | $\mathcal{O}(1; \{3^{11}\})$ | 49104 |
| 9 | $\mathcal{O}(1; \{3^7, 9^3\})$ | 186624 |
| 9 | $\mathcal{O}(1; \{3^3, 9^6\})$ | 3464208 |
| 9 | $\mathcal{O}(0; \{3^{10}, 9^3\})$ | 18432 |
| 9 | $\mathcal{O}(0; \{3^6, 9^6\})$ | 342144 |
| 9 | $\mathcal{O}(0; \{3^2, 9^9\})$ | 4461480 |
| 10 | $\mathcal{O}(3; \{2^2, 5^2\})$ | 4000000 |
| 10 | $\mathcal{O}(3; \{5, 10^2\})$ | 12000000 |
| 10 | $\mathcal{O}(2; \{2^6, 5^2\})$ | 40000 |
| 10 | $\mathcal{O}(2; \{2, 5^4, 10\})$ | 2040000 |
| 10 | $\mathcal{O}(2; \{2^4, 5, 10^2\})$ | 120000 |
| 10 | $\mathcal{O}(2; \{2^2, 10^4\})$ | 520000 |
| 10 | $\mathcal{O}(1; \{2^{10}, 5^2\})$ | 400 |
| 10 | $\mathcal{O}(1; \{2^2, 5^7\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^5, 5^4, 10\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2^8, 5, 10^2\})$ | 1200 |
| 10 | $\mathcal{O}(1; \{5^6, 10^2\})$ | 1310800 |
| 10 | $\mathcal{O}(1; \{2^3, 5^3, 10^3\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^6, 10^4\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{2, 5^2, 10^5\})$ | 327600 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 10 | $\mathcal{O}(0; \{2^{14}, 5^2\})$ | 4 |
| 10 | $\mathcal{O}(0; \{2^6, 5^7\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^9, 5^4, 10\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2, 5^9, 10\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^{12}, 5, 10^2\})$ | 12 |
| 10 | $\mathcal{O}(0; \{2^4, 5^6, 10^2\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^7, 5^3, 10^3\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2^{10}, 10^4\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^2, 5^5, 10^4\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^5, 5^2, 10^5\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{5^4, 10^6\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^3, 5, 10^7\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2, 10^9\})$ | 52428 |
| 11 | $\mathcal{O}(4; \emptyset)$ | 214358880 |
| 12 | $\mathcal{O}(3; \{4^2\})$ | 5963776 |
| 12 | $\mathcal{O}(2; \{2^4, 4^2\})$ | 40960 |
| 12 | $\mathcal{O}(2; \{3^3, 4^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 4^4\})$ | 163840 |
| 12 | $\mathcal{O}(2; \{2, 3, 4^2, 6\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 3^2, 4, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^2, 4, 6, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^2, 3, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{6^2, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{4, 12^3\})$ | 331776 |
| 12 | $\mathcal{O}(1; \{2^8, 4^2\})$ | 256 |
| 12 | $\mathcal{O}(1; \{2^4, 3^3, 4^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^6, 4^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^5, 4^4\})$ | 1024 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4^4\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 4^6\})$ | 4096 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 4^2, 6\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 4^2, 6\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^4, 6\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4^2, 6^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^3, 4^2, 6^3\})$ | 576 |
| 12 | $\mathcal{O}(1; \{4^4, 6^3\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3, 4^2, 6^4\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^5, 3^2, 4, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^5, 4, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4^3, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^6, 4, 6, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 4, 6, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^3, 4^3, 6, 12\})$ | 2304 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{4^5, 6, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4, 6^2, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3, 4^3, 6^2, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3^2, 4, 6^3, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2, 4, 6^4, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^6, 3, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^4, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4^2, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3, 4^4, 12^2\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 6, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3^2, 4^2, 6, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^4, 6^2, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^3, 6^2, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 4^2, 6^2, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2, 3, 6^3, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^4, 4, 12^3\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^3, 4, 12^3\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2, 4^3, 12^3\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2, 3, 4, 6, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^2, 6, 12^4\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{12^6\})$ | 101376 |
| 12 | $\mathcal{O}(0; \{2^8, 3^3, 4^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^6, 4^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^9, 4^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4^4\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^9, 3, 4^2, 6\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 4^2, 6\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 4^2, 6\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^4, 6\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^4, 6\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^6, 6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3, 4^8, 6\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4^2, 6^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4^2, 6^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^4, 6^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^2, 4^6, 6^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^7, 4^2, 6^3\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^2, 6^3\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^4, 4^4, 6^3\})$ | 16 |
| 12 | $\mathcal{O}(0; \{3^3, 4^4, 6^3\})$ | 176 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2, 4^6, 6^3\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^2, 6^4\})$ | 20 |
| 12 | $\mathcal{O}(0; \{3^4, 4^2, 6^4\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^4, 6^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^2, 6^5\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^2, 4^2, 6^6\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^9, 3^2, 4, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^5, 4, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^8, 4, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4^3, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4^3, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^5, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^2, 4^7, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^{10}, 4, 6, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 4, 6, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 4, 6, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^7, 4^3, 6, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^3, 6, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^4, 4^5, 6, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^3, 4^5, 6, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 4^7, 6, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4, 6^2, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4, 6^2, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^3, 6^2, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^4, 4^3, 6^2, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^5, 6^2, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4, 6^3, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^5, 4, 6^3, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^3, 6^3, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^5, 4, 6^4, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4, 6^4, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^2, 4^3, 6^4, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4, 6^5, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{4, 6^7, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^{10}, 3, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^4, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^7, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4^2, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4^2, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^4, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^4, 4^4, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 6, 12^2\})$ | 20 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^2, 6, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^5, 4^2, 6, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^4, 6, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^8, 6^2, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 6^2, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^6, 6^2, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 4^2, 6^2, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^2, 6^2, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 4^4, 6^2, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 6^3, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 6^3, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^2, 6^3, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 6^4, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 6^5, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{4^2, 6^5, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3, 6^6, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^8, 4, 12^3\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^6, 4, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^5, 4^3, 12^3\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^3, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 4^5, 12^3\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4, 6, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4, 6, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^3, 6, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4, 6^2, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 4, 6^3, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{4^3, 6^3, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3, 4, 6^4, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^2, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^6, 6, 12^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 6, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 4^2, 6, 12^4\})$ | 320 |
| 12 | $\mathcal{O}(0; \{4^4, 6, 12^4\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 6^2, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3, 4^2, 6^2, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3^2, 6^3, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 6^4, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4, 12^5\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3, 4^3, 12^5\})$ | 2816 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 12 | $\mathcal{O}(0; \{3^2, 4, 6, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2, 4, 6^2, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^4, 12^6\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3^3, 12^6\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2, 4^2, 12^6\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2, 3, 6, 12^6\})$ | 2752 |
| 14 | $\mathcal{O}(2; \{2^2, 7^2\})$ | 230496 |
| 14 | $\mathcal{O}(2; \{7, 14^2\})$ | 1152480 |
| 14 | $\mathcal{O}(1; \{2^6, 7^2\})$ | 1176 |
| 14 | $\mathcal{O}(1; \{2^4, 7, 14^2\})$ | 5880 |
| 14 | $\mathcal{O}(1; \{2^2, 14^4\})$ | 36456 |
| 14 | $\mathcal{O}(0; \{2^{10}, 7^2\})$ | 6 |
| 14 | $\mathcal{O}(0; \{2^3, 7^5, 14\})$ | 6666 |
| 14 | $\mathcal{O}(0; \{2^8, 7, 14^2\})$ | 30 |
| 14 | $\mathcal{O}(0; \{2, 7^4, 14^3\})$ | 39990 |
| 14 | $\mathcal{O}(0; \{2^6, 14^4\})$ | 186 |
| 15 | $\mathcal{O}(2; \{5^3\})$ | 600000 |
| 15 | $\mathcal{O}(2; \{3, 5, 15\})$ | 405000 |
| 15 | $\mathcal{O}(1; \{3^3, 5^3\})$ | 5400 |
| 15 | $\mathcal{O}(1; \{3^4, 5, 15\})$ | 9000 |
| 15 | $\mathcal{O}(1; \{5^2, 15^3\})$ | 91800 |
| 15 | $\mathcal{O}(1; \{3, 15^4\})$ | 117000 |
| 15 | $\mathcal{O}(0; \{3^6, 5^3\})$ | 264 |
| 15 | $\mathcal{O}(0; \{3^7, 5, 15\})$ | 344 |
| 15 | $\mathcal{O}(0; \{3, 5^6, 15\})$ | 6552 |
| 15 | $\mathcal{O}(0; \{3^2, 5^4, 15^2\})$ | 4920 |
| 15 | $\mathcal{O}(0; \{3^3, 5^2, 15^3\})$ | 4488 |
| 15 | $\mathcal{O}(0; \{3^4, 15^4\})$ | 4472 |
| 15 | $\mathcal{O}(0; \{5, 15^6\})$ | 72072 |
| 16 | $\mathcal{O}(1; \{2^3, 4, 16^2\})$ | 4096 |
| 16 | $\mathcal{O}(1; \{4^3, 16^2\})$ | 16384 |
| 16 | $\mathcal{O}(1; \{2, 8^2, 16^2\})$ | 32768 |
| 16 | $\mathcal{O}(0; \{2^7, 4, 16^2\})$ | 16 |
| 16 | $\mathcal{O}(0; \{2^4, 4^3, 16^2\})$ | 64 |
| 16 | $\mathcal{O}(0; \{2, 4^5, 16^2\})$ | 256 |
| 16 | $\mathcal{O}(0; \{2^5, 8^2, 16^2\})$ | 128 |
| 16 | $\mathcal{O}(0; \{2^2, 4^2, 8^2, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{4, 8^4, 16^2\})$ | 4096 |
| 16 | $\mathcal{O}(0; \{2^3, 8, 16^4\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{4^2, 8, 16^4\})$ | 8192 |
| 16 | $\mathcal{O}(0; \{2, 16^6\})$ | 32768 |
| 17 | $\mathcal{O}(2; \{17^2\})$ | 1336336 |
| 18 | $\mathcal{O}(2; \{6^2\})$ | 207360 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 18 | $\mathcal{O}(1; \{2^2, 3^4\})$ | 1728 |
| 18 | $\mathcal{O}(1; \{2^3, 3^2, 6\})$ | 576 |
| 18 | $\mathcal{O}(1; \{2^4, 6^2\})$ | 576 |
| 18 | $\mathcal{O}(1; \{3^3, 6^2\})$ | 2880 |
| 18 | $\mathcal{O}(1; \{2, 3, 6^3\})$ | 1728 |
| 18 | $\mathcal{O}(1; \{2^2, 9^3\})$ | 5832 |
| 18 | $\mathcal{O}(1; \{2, 3^2, 9, 18\})$ | 7776 |
| 18 | $\mathcal{O}(1; \{2^2, 6, 9, 18\})$ | 3888 |
| 18 | $\mathcal{O}(1; \{9^2, 18^2\})$ | 52488 |
| 18 | $\mathcal{O}(1; \{6, 18^3\})$ | 11664 |
| 18 | $\mathcal{O}(0; \{2^6, 9^3\})$ | 18 |
| 18 | $\mathcal{O}(0; \{2^2, 3^3, 9^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^3, 3, 6, 9^3\})$ | 72 |
| 18 | $\mathcal{O}(0; \{3^2, 6^2, 9^3\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2, 6^3, 9^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^5, 3^2, 9, 18\})$ | 24 |
| 18 | $\mathcal{O}(0; \{2, 3^5, 9, 18\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^6, 6, 9, 18\})$ | 12 |
| 18 | $\mathcal{O}(0; \{2^2, 3^3, 6, 9, 18\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^3, 3, 6^2, 9, 18\})$ | 48 |
| 18 | $\mathcal{O}(0; \{3^2, 6^3, 9, 18\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2, 6^4, 9, 18\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2, 3, 9^4, 18\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{2^4, 9^2, 18^2\})$ | 162 |
| 18 | $\mathcal{O}(0; \{3^3, 9^2, 18^2\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2, 3, 6, 9^2, 18^2\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^3, 3^2, 18^3\})$ | 72 |
| 18 | $\mathcal{O}(0; \{2^4, 6, 18^3\})$ | 36 |
| 18 | $\mathcal{O}(0; \{3^3, 6, 18^3\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2, 3, 6^2, 18^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^2, 9, 18^4\})$ | 810 |
| 18 | $\mathcal{O}(0; \{18^6\})$ | 5346 |
| 20 | $\mathcal{O}(1; \{4^2, 10^2\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{4, 5^2, 20\})$ | 9600 |
| 20 | $\mathcal{O}(1; \{2, 10, 20^2\})$ | 9600 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 5^3, 10\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^4, 4^2, 10^2\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2, 4^4, 10^2\})$ | 32 |
| 20 | $\mathcal{O}(0; \{2^4, 4, 5^2, 20\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2, 4^3, 5^2, 20\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2^2, 4, 5, 10^2, 20\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4, 10^4, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^2, 5^3, 20^2\})$ | 408 |

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Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 20 | $\mathcal{O}(0; \{2^5, 10, 20^2\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2^2, 4^2, 10, 20^2\})$ | 96 |
| 20 | $\mathcal{O}(0; \{5^2, 10^2, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{4, 5, 10, 20^3\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{2^3, 20^4\})$ | 416 |
| 20 | $\mathcal{O}(0; \{4^2, 20^4\})$ | 1664 |
| 21 | $\mathcal{O}(1; \{3^2, 7, 21\})$ | 5292 |
| 21 | $\mathcal{O}(0; \{3^5, 7, 21\})$ | 132 |
| 21 | $\mathcal{O}(0; \{3, 7^3, 21^2\})$ | 2220 |
| 21 | $\mathcal{O}(0; \{3^2, 21^4\})$ | 4092 |
| 22 | $\mathcal{O}(2; \{2^2\})$ | 234240 |
| 22 | $\mathcal{O}(1; \{2^6\})$ | 480 |
| 23 | $\mathcal{O}(1; \{23^3\})$ | 244398 |
| 24 | $\mathcal{O}(1; \{2^2, 8^2\})$ | 2048 |
| 24 | $\mathcal{O}(1; \{8, 12, 24\})$ | 9216 |
| 24 | $\mathcal{O}(1; \{6, 24^2\})$ | 4608 |
| 24 | $\mathcal{O}(0; \{2^2, 3^3, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2^3, 3, 6, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3, 4^2, 6, 8^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{3^2, 6^2, 8^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2, 6^3, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^2, 4, 8^2, 12\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 4, 6, 8^2, 12\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 3, 8^2, 12^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^3, 3, 4, 8, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3, 4^3, 8, 24\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3^2, 4, 6, 8, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2, 4, 6^2, 8, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2, 3, 8^3, 24\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^4, 8, 12, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3^3, 8, 12, 24\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2, 4^2, 8, 12, 24\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2, 3, 6, 8, 12, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^3, 3^2, 24^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{3^2, 4^2, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2^4, 6, 24^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^3, 6, 24^2\})$ | 88 |
| 24 | $\mathcal{O}(0; \{2, 4^2, 6, 24^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 3, 6^2, 24^2\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2, 3, 4, 12, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2^2, 12^2, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2^2, 8, 24^3\})$ | 128 |
| 24 | $\mathcal{O}(0; \{12, 24^4\})$ | 1280 |

Continued on next page

Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 25 | $\mathcal{O}(0; \{5, 25^4\})$ | 26000 |
| 27 | $\mathcal{O}(1; \{3, 9^2\})$ | 7776 |
| 27 | $\mathcal{O}(0; \{3, 9, 27^3\})$ | 1944 |
| 28 | $\mathcal{O}(0; \{2^2, 4^2, 14^2\})$ | 12 |
| 28 | $\mathcal{O}(0; \{4, 7^2, 14, 28\})$ | 372 |
| 28 | $\mathcal{O}(0; \{2^3, 14, 28^2\})$ | 60 |
| 28 | $\mathcal{O}(0; \{4^2, 14, 28^2\})$ | 240 |
| 28 | $\mathcal{O}(0; \{2, 28^4\})$ | 1488 |
| 30 | $\mathcal{O}(1; \{2, 5, 10\})$ | 3200 |
| 30 | $\mathcal{O}(0; \{2, 3^3, 5, 10\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 5, 6, 10\})$ | 8 |
| 30 | $\mathcal{O}(0; \{5, 6^3, 10\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3, 6, 10^3\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 5^2, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{5^2, 6^2, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3, 5, 10^2, 15\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^2, 3^2, 15^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^3, 6, 15^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3, 6^2, 15^2\})$ | 40 |
| 30 | $\mathcal{O}(0; \{2, 10, 15^3\})$ | 104 |
| 30 | $\mathcal{O}(0; \{5^3, 6, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^2, 3^2, 10, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2^3, 6, 10, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3, 6^2, 10, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^3, 5, 15, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3, 5, 6, 15, 30\})$ | 72 |
| 30 | $\mathcal{O}(0; \{2, 10^2, 15, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{3, 5^2, 30^2\})$ | 104 |
| 30 | $\mathcal{O}(0; \{3^2, 15, 30^2\})$ | 120 |
| 30 | $\mathcal{O}(0; \{2, 6, 15, 30^2\})$ | 72 |
| 30 | $\mathcal{O}(0; \{2, 5, 30^3\})$ | 104 |
| 32 | $\mathcal{O}(0; \{2, 4, 8, 32^2\})$ | 128 |
| 33 | $\mathcal{O}(2; \emptyset)$ | 1171200 |
| 33 | $\mathcal{O}(1; \{3^3\})$ | 2160 |
| 34 | $\mathcal{O}(1; \{34^2\})$ | 18496 |
| 34 | $\mathcal{O}(0; \{2^4, 34^2\})$ | 16 |
| 35 | $\mathcal{O}(0; \{35^4\})$ | 9672 |
| 36 | $\mathcal{O}(1; \{12^2\})$ | 4608 |
| 36 | $\mathcal{O}(0; \{2, 4^2, 9, 18\})$ | 12 |
| 36 | $\mathcal{O}(0; \{2, 3, 4, 18, 36\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2^2, 12, 18, 36\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2^2, 9, 36^2\})$ | 36 |
| 36 | $\mathcal{O}(0; \{18^2, 36^2\})$ | 324 |

Continued on next page

Table 4 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 36 | $\mathcal{O}(0; \{12, 36^3\})$ | 288 |
| 40 | $\mathcal{O}(0; \{8^2, 20^2\})$ | 64 |
| 40 | $\mathcal{O}(0; \{2^2, 5, 8, 40\})$ | 16 |
| 40 | $\mathcal{O}(0; \{8, 10^2, 40\})$ | 48 |
| 40 | $\mathcal{O}(0; \{5, 10, 40^2\})$ | 208 |
| 40 | $\mathcal{O}(0; \{4, 20, 40^2\})$ | 192 |
| 42 | $\mathcal{O}(0; \{6, 7, 14, 21\})$ | 60 |
| 42 | $\mathcal{O}(0; \{2^2, 3, 21^2\})$ | 12 |
| 42 | $\mathcal{O}(0; \{6^2, 21^2\})$ | 36 |
| 42 | $\mathcal{O}(0; \{2^2, 3, 14, 42\})$ | 12 |
| 42 | $\mathcal{O}(0; \{6^2, 14, 42\})$ | 12 |
| 42 | $\mathcal{O}(0; \{3, 21, 42^2\})$ | 180 |
| 44 | $\mathcal{O}(1; \{4^2\})$ | 3840 |
| 45 | $\mathcal{O}(0; \{5^2, 9, 45\})$ | 72 |
| 45 | $\mathcal{O}(0; \{3, 9, 15, 45\})$ | 96 |
| 46 | $\mathcal{O}(0; \{2^3, 23, 46\})$ | 22 |
| 46 | $\mathcal{O}(0; \{2, 46^3\})$ | 462 |
| 48 | $\mathcal{O}(0; \{3, 6, 16^2\})$ | 16 |
| 48 | $\mathcal{O}(0; \{2, 16, 24, 48\})$ | 64 |
| 48 | $\mathcal{O}(0; \{3, 4, 48^2\})$ | 32 |
| 48 | $\mathcal{O}(0; \{2, 12, 48^2\})$ | 32 |
| 50 | $\mathcal{O}(0; \{2, 10, 25^2\})$ | 80 |
| 51 | $\mathcal{O}(0; \{3^2, 51^2\})$ | 96 |
| 60 | $\mathcal{O}(0; \{2, 3, 20, 60\})$ | 16 |
| 66 | $\mathcal{O}(1; \{2^2\})$ | 3840 |
| 68 | $\mathcal{O}(0; \{2^2, 68^2\})$ | 32 |
| 69 | $\mathcal{O}(0; \{69^3\})$ | 924 |
| 70 | $\mathcal{O}(0; \{2^2, 35^2\})$ | 24 |
| 70 | $\mathcal{O}(0; \{35, 70^2\})$ | 360 |
| 72 | $\mathcal{O}(0; \{24, 36, 72\})$ | 96 |
| 72 | $\mathcal{O}(0; \{18, 72^2\})$ | 72 |
| 75 | $\mathcal{O}(0; \{15, 25, 75\})$ | 160 |
| 80 | $\mathcal{O}(0; \{10, 16, 80\})$ | 32 |
| 84 | $\mathcal{O}(0; \{6, 28, 84\})$ | 24 |
| 85 | $\mathcal{O}(0; \{5, 85^2\})$ | 192 |
| 90 | $\mathcal{O}(0; \{5, 18, 90\})$ | 24 |
| 92 | $\mathcal{O}(0; \{4, 46, 92\})$ | 44 |
| 102 | $\mathcal{O}(0; \{3, 102^2\})$ | 32 |
| 105 | $\mathcal{O}(0; \{3, 35, 105\})$ | 48 |
| 136 | $\mathcal{O}(0; \{2, 136^2\})$ | 64 |
| 138 | $\mathcal{O}(0; \{2, 69, 138\})$ | 44 |

Table 5: 35-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-----------------------------------|---|
| 1 | $\mathcal{O}(35; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(18; \emptyset)$ | 68719476735 |
| 2 | $\mathcal{O}(17; \{2^4\})$ | 17179869184 |
| 2 | $\mathcal{O}(16; \{2^8\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^{12}\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{16}\})$ | 268435456 |
| 2 | $\mathcal{O}(13; \{2^{20}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{24}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{28}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{32}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{36}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{40}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{44}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{48}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{52}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{56}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{60}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{64}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{68}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{72}\})$ | 1 |
| 3 | $\mathcal{O}(11; \{3^4\})$ | 188286357654 |
| 3 | $\mathcal{O}(10; \{3^7\})$ | 146444944842 |
| 3 | $\mathcal{O}(9; \{3^{10}\})$ | 132497807238 |
| 3 | $\mathcal{O}(8; \{3^{13}\})$ | 117517548330 |
| 3 | $\mathcal{O}(7; \{3^{16}\})$ | 104488740774 |
| 3 | $\mathcal{O}(6; \{3^{19}\})$ | 92875692042 |
| 3 | $\mathcal{O}(5; \{3^{22}\})$ | 82556524998 |
| 3 | $\mathcal{O}(4; \{3^{25}\})$ | 73383538410 |
| 3 | $\mathcal{O}(3; \{3^{28}\})$ | 65229816294 |
| 3 | $\mathcal{O}(2; \{3^{31}\})$ | 57982058442 |
| 3 | $\mathcal{O}(1; \{3^{34}\})$ | 51539607558 |
| 3 | $\mathcal{O}(0; \{3^{37}\})$ | 45812984490 |
| 4 | $\mathcal{O}(9; \{2^2\})$ | 68719214592 |
| 4 | $\mathcal{O}(8; \{2^6\})$ | 4294901760 |
| 4 | $\mathcal{O}(8; \{2^3, 4^2\})$ | 8589934592 |
| 4 | $\mathcal{O}(8; \{4^4\})$ | 34359738368 |
| 4 | $\mathcal{O}(7; \{2^{10}\})$ | 268419072 |
| 4 | $\mathcal{O}(7; \{2^7, 4^2\})$ | 536870912 |
| 4 | $\mathcal{O}(7; \{2^4, 4^4\})$ | 2147483648 |
| 4 | $\mathcal{O}(7; \{2, 4^6\})$ | 8589934592 |
| 4 | $\mathcal{O}(6; \{2^{14}\})$ | 16773120 |
| 4 | $\mathcal{O}(6; \{2^{11}, 4^2\})$ | 33554432 |

Continued on next page

Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(6; \{2^8, 4^4\})$ | 134217728 |
| 4 | $\mathcal{O}(6; \{2^5, 4^6\})$ | 536870912 |
| 4 | $\mathcal{O}(6; \{2^2, 4^8\})$ | 2147483648 |
| 4 | $\mathcal{O}(5; \{2^{18}\})$ | 1047552 |
| 4 | $\mathcal{O}(5; \{2^{15}, 4^2\})$ | 2097152 |
| 4 | $\mathcal{O}(5; \{2^{12}, 4^4\})$ | 8388608 |
| 4 | $\mathcal{O}(5; \{2^9, 4^6\})$ | 33554432 |
| 4 | $\mathcal{O}(5; \{2^6, 4^8\})$ | 134217728 |
| 4 | $\mathcal{O}(5; \{2^3, 4^{10}\})$ | 536870912 |
| 4 | $\mathcal{O}(5; \{4^{12}\})$ | 2147483648 |
| 4 | $\mathcal{O}(4; \{2^{22}\})$ | 65280 |
| 4 | $\mathcal{O}(4; \{2^{19}, 4^2\})$ | 131072 |
| 4 | $\mathcal{O}(4; \{2^{16}, 4^4\})$ | 524288 |
| 4 | $\mathcal{O}(4; \{2^{13}, 4^6\})$ | 2097152 |
| 4 | $\mathcal{O}(4; \{2^{10}, 4^8\})$ | 8388608 |
| 4 | $\mathcal{O}(4; \{2^7, 4^{10}\})$ | 33554432 |
| 4 | $\mathcal{O}(4; \{2^4, 4^{12}\})$ | 134217728 |
| 4 | $\mathcal{O}(4; \{2, 4^{14}\})$ | 536870912 |
| 4 | $\mathcal{O}(3; \{2^{26}\})$ | 4032 |
| 4 | $\mathcal{O}(3; \{2^{23}, 4^2\})$ | 8192 |
| 4 | $\mathcal{O}(3; \{2^{20}, 4^4\})$ | 32768 |
| 4 | $\mathcal{O}(3; \{2^{17}, 4^6\})$ | 131072 |
| 4 | $\mathcal{O}(3; \{2^{14}, 4^8\})$ | 524288 |
| 4 | $\mathcal{O}(3; \{2^{11}, 4^{10}\})$ | 2097152 |
| 4 | $\mathcal{O}(3; \{2^8, 4^{12}\})$ | 8388608 |
| 4 | $\mathcal{O}(3; \{2^5, 4^{14}\})$ | 33554432 |
| 4 | $\mathcal{O}(3; \{2^2, 4^{16}\})$ | 134217728 |
| 4 | $\mathcal{O}(2; \{2^{30}\})$ | 240 |
| 4 | $\mathcal{O}(2; \{2^{27}, 4^2\})$ | 512 |
| 4 | $\mathcal{O}(2; \{2^{24}, 4^4\})$ | 2048 |
| 4 | $\mathcal{O}(2; \{2^{21}, 4^6\})$ | 8192 |
| 4 | $\mathcal{O}(2; \{2^{18}, 4^8\})$ | 32768 |
| 4 | $\mathcal{O}(2; \{2^{15}, 4^{10}\})$ | 131072 |
| 4 | $\mathcal{O}(2; \{2^{12}, 4^{12}\})$ | 524288 |
| 4 | $\mathcal{O}(2; \{2^9, 4^{14}\})$ | 2097152 |
| 4 | $\mathcal{O}(2; \{2^6, 4^{16}\})$ | 8388608 |
| 4 | $\mathcal{O}(2; \{2^3, 4^{18}\})$ | 33554432 |
| 4 | $\mathcal{O}(2; \{4^{20}\})$ | 134217728 |
| 4 | $\mathcal{O}(1; \{2^{34}\})$ | 12 |
| 4 | $\mathcal{O}(1; \{2^{31}, 4^2\})$ | 32 |
| 4 | $\mathcal{O}(1; \{2^{28}, 4^4\})$ | 128 |
| 4 | $\mathcal{O}(1; \{2^{25}, 4^6\})$ | 512 |
| 4 | $\mathcal{O}(1; \{2^{22}, 4^8\})$ | 2048 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(1; \{2^{19}, 4^{10}\})$ | 8192 |
| 4 | $\mathcal{O}(1; \{2^{16}, 4^{12}\})$ | 32768 |
| 4 | $\mathcal{O}(1; \{2^{13}, 4^{14}\})$ | 131072 |
| 4 | $\mathcal{O}(1; \{2^{10}, 4^{16}\})$ | 524288 |
| 4 | $\mathcal{O}(1; \{2^7, 4^{18}\})$ | 2097152 |
| 4 | $\mathcal{O}(1; \{2^4, 4^{20}\})$ | 8388608 |
| 4 | $\mathcal{O}(1; \{2, 4^{22}\})$ | 33554432 |
| 4 | $\mathcal{O}(0; \{2^{35}, 4^2\})$ | 2 |
| 4 | $\mathcal{O}(0; \{2^{32}, 4^4\})$ | 8 |
| 4 | $\mathcal{O}(0; \{2^{29}, 4^6\})$ | 32 |
| 4 | $\mathcal{O}(0; \{2^{26}, 4^8\})$ | 128 |
| 4 | $\mathcal{O}(0; \{2^{23}, 4^{10}\})$ | 512 |
| 4 | $\mathcal{O}(0; \{2^{20}, 4^{12}\})$ | 2048 |
| 4 | $\mathcal{O}(0; \{2^{17}, 4^{14}\})$ | 8192 |
| 4 | $\mathcal{O}(0; \{2^{14}, 4^{16}\})$ | 32768 |
| 4 | $\mathcal{O}(0; \{2^{11}, 4^{18}\})$ | 131072 |
| 4 | $\mathcal{O}(0; \{2^8, 4^{20}\})$ | 524288 |
| 4 | $\mathcal{O}(0; \{2^5, 4^{22}\})$ | 2097152 |
| 4 | $\mathcal{O}(0; \{2^2, 4^{24}\})$ | 8388608 |
| 5 | $\mathcal{O}(7; \{5^2\})$ | 24414062500 |
| 5 | $\mathcal{O}(5; \{5^7\})$ | 31992187500 |
| 5 | $\mathcal{O}(3; \{5^{12}\})$ | 52428812500 |
| 5 | $\mathcal{O}(1; \{5^{17}\})$ | 85899345900 |
| 6 | $\mathcal{O}(6; \{3^2\})$ | 4352501790 |
| 6 | $\mathcal{O}(5; \{2^4, 3^2\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{3^5\})$ | 604071270 |
| 6 | $\mathcal{O}(5; \{2, 3^3, 6\})$ | 362797056 |
| 6 | $\mathcal{O}(5; \{2^2, 3, 6^2\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{6^4\})$ | 362797056 |
| 6 | $\mathcal{O}(4; \{2^8, 3^2\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^4, 3^5\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{3^8\})$ | 143882730 |
| 6 | $\mathcal{O}(4; \{2^5, 3^3, 6\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2, 3^6, 6\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^6, 3, 6^2\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^2, 3^4, 6^2\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2^3, 3^2, 6^3\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^4, 6^4\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{3^3, 6^4\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2, 3, 6^5\})$ | 36951552 |
| 6 | $\mathcal{O}(3; \{2^{12}, 3^2\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^8, 3^5\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^4, 3^8\})$ | 4012416 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(3; \{3^{11}\})$ | 31322214 |
| 6 | $\mathcal{O}(3; \{2^9, 3^3, 6\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^5, 3^6, 6\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2, 3^9, 6\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^{10}, 3, 6^2\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^6, 3^4, 6^2\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^2, 3^7, 6^2\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^7, 3^2, 6^3\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^3, 3^5, 6^3\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^8, 6^4\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^4, 3^3, 6^4\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{3^6, 6^4\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^5, 3, 6^5\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2, 3^4, 6^5\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^2, 3^2, 6^6\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^3, 6^7\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{3, 6^8\})$ | 7931520 |
| 6 | $\mathcal{O}(2; \{2^{16}, 3^2\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{12}, 3^5\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^8, 3^8\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^4, 3^{11}\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{3^{14}\})$ | 6636330 |
| 6 | $\mathcal{O}(2; \{2^{13}, 3^3, 6\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^9, 3^6, 6\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^5, 3^9, 6\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2, 3^{12}, 6\})$ | 3538080 |
| 6 | $\mathcal{O}(2; \{2^{14}, 3, 6^2\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3^4, 6^2\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^6, 3^7, 6^2\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^2, 3^{10}, 6^2\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2^{11}, 3^2, 6^3\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^7, 3^5, 6^3\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^3, 3^8, 6^3\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^{12}, 6^4\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^8, 3^3, 6^4\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^4, 3^6, 6^4\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{3^9, 6^4\})$ | 3538080 |
| 6 | $\mathcal{O}(2; \{2^9, 3, 6^5\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^5, 3^4, 6^5\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2, 3^7, 6^5\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2^6, 3^2, 6^6\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^2, 3^5, 6^6\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^7, 6^7\})$ | 54432 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(2; \{2^3, 3^3, 6^7\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^4, 3, 6^8\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{3^4, 6^8\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2, 3^2, 6^9\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^2, 6^{10}\})$ | 443232 |
| 6 | $\mathcal{O}(1; \{2^{20}, 3^2\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3^5\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^8\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^8, 3^{11}\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^4, 3^{14}\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{3^{17}\})$ | 1179630 |
| 6 | $\mathcal{O}(1; \{2^{17}, 3^3, 6\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^6, 6\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^9, 3^9, 6\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^5, 3^{12}, 6\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2, 3^{15}, 6\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^{18}, 3, 6^2\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3^4, 6^2\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^7, 6^2\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^6, 3^{10}, 6^2\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{13}, 6^2\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{15}, 3^2, 6^3\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^5, 6^3\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^7, 3^8, 6^3\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^3, 3^{11}, 6^3\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{16}, 6^4\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^3, 6^4\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^8, 3^6, 6^4\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^4, 3^9, 6^4\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{3^{12}, 6^4\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3, 6^5\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^9, 3^4, 6^5\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^5, 3^7, 6^5\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2, 3^{10}, 6^5\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^2, 6^6\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^6, 3^5, 6^6\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^2, 3^8, 6^6\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{11}, 6^7\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^7, 3^3, 6^7\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^3, 3^6, 6^7\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^8, 3, 6^8\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^4, 3^4, 6^8\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{3^7, 6^8\})$ | 393192 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(1; \{2^5, 3^2, 6^9\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2, 3^5, 6^9\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^6, 6^{10}\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^2, 3^3, 6^{10}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^3, 3, 6^{11}\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{3^2, 6^{12}\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2, 6^{13}\})$ | 98280 |
| 6 | $\mathcal{O}(0; \{2^{24}, 3^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^5\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^8\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^{11}\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{14}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{17}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{21}, 3^3, 6\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^6, 6\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^9, 6\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^9, 3^{12}, 6\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{15}, 6\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2, 3^{18}, 6\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3, 6^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^4, 6^2\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^7, 6^2\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{10}, 6^2\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{13}, 6^2\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{16}, 6^2\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^2, 6^3\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^5, 6^3\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^8, 6^3\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{11}, 6^3\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{14}, 6^3\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{20}, 6^4\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^3, 6^4\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^6, 6^4\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^8, 3^9, 6^4\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{12}, 6^4\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{3^{15}, 6^4\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3, 6^5\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^4, 6^5\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^9, 3^7, 6^5\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{10}, 6^5\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2, 3^{13}, 6^5\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^2, 6^6\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^5, 6^6\})$ | 682 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2^6, 3^8, 6^6\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{11}, 6^6\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{15}, 6^7\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^3, 6^7\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^7, 3^6, 6^7\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^3, 3^9, 6^7\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3, 6^8\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^8, 3^4, 6^8\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^4, 3^7, 6^8\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{3^{10}, 6^8\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^9, 3^2, 6^9\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^5, 3^5, 6^9\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2, 3^8, 6^9\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{10}, 6^{10}\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^6, 3^3, 6^{10}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^2, 3^6, 6^{10}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^7, 3, 6^{11}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^3, 3^4, 6^{11}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^4, 3^2, 6^{12}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{3^5, 6^{12}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^5, 6^{13}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2, 3^3, 6^{13}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^2, 3, 6^{14}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{6^{16}\})$ | 21846 |
| 7 | $\mathcal{O}(5; \{7^2\})$ | 1694851494 |
| 7 | $\mathcal{O}(2; \{7^9\})$ | 3456647670 |
| 8 | $\mathcal{O}(4; \{2^2, 4^2\})$ | 33423360 |
| 8 | $\mathcal{O}(4; \{4, 8^2\})$ | 134217728 |
| 8 | $\mathcal{O}(3; \{2^6, 4^2\})$ | 516096 |
| 8 | $\mathcal{O}(3; \{2^3, 4^4\})$ | 2064384 |
| 8 | $\mathcal{O}(3; \{4^6\})$ | 8257536 |
| 8 | $\mathcal{O}(3; \{2^4, 4, 8^2\})$ | 2097152 |
| 8 | $\mathcal{O}(3; \{2, 4^3, 8^2\})$ | 8388608 |
| 8 | $\mathcal{O}(3; \{2^2, 8^4\})$ | 16777216 |
| 8 | $\mathcal{O}(2; \{2^{10}, 4^2\})$ | 7680 |
| 8 | $\mathcal{O}(2; \{2^7, 4^4\})$ | 30720 |
| 8 | $\mathcal{O}(2; \{2^4, 4^6\})$ | 122880 |
| 8 | $\mathcal{O}(2; \{2, 4^8\})$ | 491520 |
| 8 | $\mathcal{O}(2; \{2^8, 4, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(2; \{2^5, 4^3, 8^2\})$ | 131072 |
| 8 | $\mathcal{O}(2; \{2^2, 4^5, 8^2\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{2^6, 8^4\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2^3, 4^2, 8^4\})$ | 1048576 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(2; \{4^4, 8^4\})$ | 4194304 |
| 8 | $\mathcal{O}(2; \{2, 4, 8^6\})$ | 8388608 |
| 8 | $\mathcal{O}(1; \{2^{14}, 4^2\})$ | 96 |
| 8 | $\mathcal{O}(1; \{2^{11}, 4^4\})$ | 384 |
| 8 | $\mathcal{O}(1; \{2^8, 4^6\})$ | 1536 |
| 8 | $\mathcal{O}(1; \{2^5, 4^8\})$ | 6144 |
| 8 | $\mathcal{O}(1; \{2^2, 4^{10}\})$ | 24576 |
| 8 | $\mathcal{O}(1; \{2^{12}, 4, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(1; \{2^9, 4^3, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(1; \{2^6, 4^5, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^3, 4^7, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{4^9, 8^2\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^{10}, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^7, 4^2, 8^4\})$ | 16384 |
| 8 | $\mathcal{O}(1; \{2^4, 4^4, 8^4\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2, 4^6, 8^4\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{2^5, 4, 8^6\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^2, 4^3, 8^6\})$ | 524288 |
| 8 | $\mathcal{O}(1; \{2^3, 8^8\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{4^2, 8^8\})$ | 4194304 |
| 8 | $\mathcal{O}(0; \{2^{16}, 4, 8^2\})$ | 8 |
| 8 | $\mathcal{O}(0; \{2^{13}, 4^3, 8^2\})$ | 32 |
| 8 | $\mathcal{O}(0; \{2^{10}, 4^5, 8^2\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^7, 4^7, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^4, 4^9, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2, 4^{11}, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^{14}, 8^4\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^{11}, 4^2, 8^4\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^8, 4^4, 8^4\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^5, 4^6, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^2, 4^8, 8^4\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^9, 4, 8^6\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^6, 4^3, 8^6\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^3, 4^5, 8^6\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{4^7, 8^6\})$ | 131072 |
| 8 | $\mathcal{O}(0; \{2^7, 8^8\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^4, 4^2, 8^8\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{2, 4^4, 8^8\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{2^2, 4, 8^{10}\})$ | 524288 |
| 8 | $\mathcal{O}(0; \{8^{12}\})$ | 4194304 |
| 9 | $\mathcal{O}(3; \{9^4\})$ | 86093442 |
| 9 | $\mathcal{O}(2; \{3^3, 9^4\})$ | 8503056 |
| 9 | $\mathcal{O}(1; \{3^6, 9^4\})$ | 839808 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---------------------------------------|---|
| 9 | $\mathcal{O}(1; \{3^2, 9^7\})$ | 9920232 |
| 9 | $\mathcal{O}(0; \{3^9, 9^4\})$ | 82944 |
| 9 | $\mathcal{O}(0; \{3^5, 9^7\})$ | 979776 |
| 9 | $\mathcal{O}(0; \{3, 9^{10}\})$ | 13463172 |
| 10 | $\mathcal{O}(3; \{2^2, 10^2\})$ | 4000000 |
| 10 | $\mathcal{O}(2; \{5^6\})$ | 7687500 |
| 10 | $\mathcal{O}(2; \{2^3, 5^3, 10\})$ | 520000 |
| 10 | $\mathcal{O}(2; \{2^6, 10^2\})$ | 40000 |
| 10 | $\mathcal{O}(2; \{2, 5^2, 10^3\})$ | 2040000 |
| 10 | $\mathcal{O}(1; \{2^4, 5^6\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^7, 5^3, 10\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{2^{10}, 10^2\})$ | 400 |
| 10 | $\mathcal{O}(1; \{2^2, 5^5, 10^2\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^5, 5^2, 10^3\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{5^4, 10^4\})$ | 1310800 |
| 10 | $\mathcal{O}(1; \{2^3, 5, 10^5\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2, 10^7\})$ | 327600 |
| 10 | $\mathcal{O}(0; \{2^8, 5^6\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2^{11}, 5^3, 10\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^3, 5^8, 10\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^{14}, 10^2\})$ | 4 |
| 10 | $\mathcal{O}(0; \{2^6, 5^5, 10^2\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^9, 5^2, 10^3\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2, 5^7, 10^3\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^4, 5^4, 10^4\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^7, 5, 10^5\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2^2, 5^3, 10^6\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^5, 10^7\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{5^2, 10^8\})$ | 209716 |
| 11 | $\mathcal{O}(0; \{11^9\})$ | 90909090 |
| 12 | $\mathcal{O}(3; \{6^2\})$ | 5878656 |
| 12 | $\mathcal{O}(2; \{2^2, 3^4\})$ | 116640 |
| 12 | $\mathcal{O}(2; \{2^3, 3^2, 6\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{3^2, 4^2, 6\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^4, 6^2\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{3^3, 6^2\})$ | 194400 |
| 12 | $\mathcal{O}(2; \{2, 4^2, 6^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 3, 6^3\})$ | 116640 |
| 12 | $\mathcal{O}(2; \{3^3, 4, 12\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2, 3, 4, 6, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 3^2, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^2, 6, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{12^4\})$ | 995328 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2^6, 3^4\})$ | 648 |
| 12 | $\mathcal{O}(1; \{2^2, 3^7\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2^3, 3^4, 4^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^4, 4^4\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^7, 3^2, 6\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^3, 3^5, 6\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 4^2, 6\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^5, 4^2, 6\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^4, 6\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^8, 6^2\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^4, 3^3, 6^2\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{3^6, 6^2\})$ | 9288 |
| 12 | $\mathcal{O}(1; \{2^5, 4^2, 6^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4^2, 6^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^2, 4^4, 6^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 6^3\})$ | 648 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 6^3\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^2, 6^3\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 6^4\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{2^3, 6^5\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{4^2, 6^5\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3, 6^6\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2^4, 3^3, 4, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^6, 4, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4^3, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 4, 6, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 4, 6, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^3, 6, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4, 6^2, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^3, 4, 6^3, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{4^3, 6^3, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3, 4, 6^4, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^5, 3^2, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2, 3^5, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4^2, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^6, 6, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 6, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^3, 4^2, 6, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{4^4, 6, 12^2\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 6^2, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3, 4^2, 6^2, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{3^2, 6^3, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 6^4, 12^2\})$ | 6336 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2^3, 3, 4, 12^3\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3, 4^3, 12^3\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{3^2, 4, 6, 12^3\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2, 4, 6^2, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^4, 12^4\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3^3, 12^4\})$ | 48384 |
| 12 | $\mathcal{O}(1; \{2, 4^2, 12^4\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{2, 3, 6, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(0; \{2^7, 3^4, 4^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^7, 4^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 4^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^7, 4^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^6\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^8, 3^2, 4^2, 6\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^5, 4^2, 6\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^8, 4^2, 6\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^4, 6\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^4, 6\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^6, 6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^9, 4^2, 6^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4^2, 6^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4^2, 6^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^6, 4^4, 6^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^4, 6^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^3, 4^6, 6^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{4^8, 6^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^2, 6^3\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^2, 6^3\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^4, 6^3\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3, 4^6, 6^3\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^2, 6^4\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^2, 4^4, 6^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^4, 4^2, 6^5\})$ | 20 |
| 12 | $\mathcal{O}(0; \{3^3, 4^2, 6^5\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2, 4^4, 6^5\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^2, 6^6\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^8, 3^3, 4, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^6, 4, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^9, 4, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4^3, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4^3, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^5, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^9, 3, 4, 6, 12\})$ | 4 |

Continued on next page

Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 4, 6, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 4, 6, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^3, 6, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^3, 6, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^5, 6, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3, 4^7, 6, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4, 6^2, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4, 6^2, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^3, 6^2, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^2, 4^5, 6^2, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^7, 4, 6^3, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4, 6^3, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 4^3, 6^3, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^3, 4^3, 6^3, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 4^5, 6^3, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4, 6^4, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^4, 4, 6^4, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^3, 6^4, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4, 6^5, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^2, 4, 6^6, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^9, 3^2, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^5, 3^5, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^8, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4^2, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4^2, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^4, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^2, 4^6, 12^2\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^{10}, 6, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 6, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 6, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^7, 4^2, 6, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^2, 6, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^4, 4^4, 6, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^3, 4^4, 6, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 4^6, 6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 6^2, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 6^2, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^2, 6^2, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^4, 4^2, 6^2, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^4, 6^2, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 6^3, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^5, 6^3, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^2, 6^3, 12^2\})$ | 336 |

Continued on next page

Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^5, 6^4, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 6^4, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^2, 4^2, 6^4, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 6^5, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{6^7, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4, 12^3\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^3, 12^3\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^4, 4^3, 12^3\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^5, 12^3\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4, 6, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^5, 4, 6, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^3, 6, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^5, 4, 6^2, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4, 6^2, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 4^3, 6^2, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4, 6^3, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{4, 6^5, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^8, 12^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^6, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2^5, 4^2, 12^4\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^2, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^2, 4^4, 12^4\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 6, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 6, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^2, 6, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 6^2, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 6^3, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{4^2, 6^3, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3, 6^4, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^3, 4, 6, 12^5\})$ | 704 |
| 12 | $\mathcal{O}(0; \{4^3, 6, 12^5\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{3, 4, 6^2, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 12^6\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3, 4^2, 12^6\})$ | 5376 |
| 12 | $\mathcal{O}(0; \{3^2, 6, 12^6\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2, 6^2, 12^6\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2, 4, 12^7\})$ | 5376 |
| 14 | $\mathcal{O}(2; \{2^2, 14^2\})$ | 230496 |
| 14 | $\mathcal{O}(1; \{2, 7^4, 14\})$ | 217560 |
| 14 | $\mathcal{O}(1; \{2^6, 14^2\})$ | 1176 |

Continued on next page

Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 14 | $\mathcal{O}(0; \{2^5, 7^4, 14\})$ | 1110 |
| 14 | $\mathcal{O}(0; \{2^{10}, 14^2\})$ | 6 |
| 14 | $\mathcal{O}(0; \{2^3, 7^3, 14^3\})$ | 6666 |
| 14 | $\mathcal{O}(0; \{2, 7^2, 14^5\})$ | 39990 |
| 15 | $\mathcal{O}(2; \{3, 15^2\})$ | 405000 |
| 15 | $\mathcal{O}(1; \{3^2, 5^4\})$ | 23400 |
| 15 | $\mathcal{O}(1; \{3^3, 5^2, 15\})$ | 16200 |
| 15 | $\mathcal{O}(1; \{3^4, 15^2\})$ | 19800 |
| 15 | $\mathcal{O}(1; \{5, 15^4\})$ | 275400 |
| 15 | $\mathcal{O}(0; \{3^5, 5^4\})$ | 520 |
| 15 | $\mathcal{O}(0; \{3^6, 5^2, 15\})$ | 504 |
| 15 | $\mathcal{O}(0; \{3^7, 15^2\})$ | 680 |
| 15 | $\mathcal{O}(0; \{3, 5^5, 15^2\})$ | 6552 |
| 15 | $\mathcal{O}(0; \{3^2, 5^3, 15^3\})$ | 8200 |
| 15 | $\mathcal{O}(0; \{3^3, 5, 15^4\})$ | 8568 |
| 15 | $\mathcal{O}(0; \{15^7\})$ | 137592 |
| 16 | $\mathcal{O}(2; \{2, 8^2\})$ | 245760 |
| 16 | $\mathcal{O}(1; \{2^5, 8^2\})$ | 768 |
| 16 | $\mathcal{O}(1; \{2^2, 4^2, 8^2\})$ | 3072 |
| 16 | $\mathcal{O}(1; \{4, 8^4\})$ | 24576 |
| 16 | $\mathcal{O}(1; \{2^3, 8, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(1; \{4^2, 8, 16^2\})$ | 32768 |
| 16 | $\mathcal{O}(1; \{2, 16^4\})$ | 131072 |
| 16 | $\mathcal{O}(0; \{2^7, 8, 16^2\})$ | 32 |
| 16 | $\mathcal{O}(0; \{2^4, 4^2, 8, 16^2\})$ | 128 |
| 16 | $\mathcal{O}(0; \{2, 4^4, 8, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{2^2, 4, 8^3, 16^2\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{8^5, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(0; \{2^5, 16^4\})$ | 512 |
| 16 | $\mathcal{O}(0; \{2^2, 4^2, 16^4\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{4, 8^2, 16^4\})$ | 16384 |
| 17 | $\mathcal{O}(3; \emptyset)$ | 24137568 |
| 18 | $\mathcal{O}(2; \{9^2\})$ | 590490 |
| 18 | $\mathcal{O}(1; \{2^4, 9^2\})$ | 1944 |
| 18 | $\mathcal{O}(1; \{3^3, 9^2\})$ | 11664 |
| 18 | $\mathcal{O}(1; \{2, 3, 6, 9^2\})$ | 7776 |
| 18 | $\mathcal{O}(1; \{2^2, 9, 18^2\})$ | 5832 |
| 18 | $\mathcal{O}(1; \{18^4\})$ | 52488 |
| 18 | $\mathcal{O}(0; \{2^8, 9^2\})$ | 6 |
| 18 | $\mathcal{O}(0; \{2^4, 3^3, 9^2\})$ | 48 |
| 18 | $\mathcal{O}(0; \{2^5, 3, 6, 9^2\})$ | 24 |
| 18 | $\mathcal{O}(0; \{2, 3^4, 6, 9^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^2, 3^2, 6^2, 9^2\})$ | 96 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 18 | $\mathcal{O}(0; \{2^3, 6^3, 9^2\})$ | 48 |
| 18 | $\mathcal{O}(0; \{3, 6^4, 9^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2, 6, 9^5\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{2^3, 3, 9^3, 18\})$ | 324 |
| 18 | $\mathcal{O}(0; \{3^2, 6, 9^3, 18\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2, 6^2, 9^3, 18\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^6, 9, 18^2\})$ | 18 |
| 18 | $\mathcal{O}(0; \{2^2, 3^3, 9, 18^2\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^3, 3, 6, 9, 18^2\})$ | 72 |
| 18 | $\mathcal{O}(0; \{3^2, 6^2, 9, 18^2\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2, 6^3, 9, 18^2\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2, 3, 9^2, 18^3\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{2^4, 18^4\})$ | 162 |
| 18 | $\mathcal{O}(0; \{3^3, 18^4\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2, 3, 6, 18^4\})$ | 648 |
| 20 | $\mathcal{O}(1; \{2^2, 5^3\})$ | 3600 |
| 20 | $\mathcal{O}(1; \{5^2, 10^2\})$ | 15600 |
| 20 | $\mathcal{O}(1; \{4, 5, 10, 20\})$ | 9600 |
| 20 | $\mathcal{O}(1; \{2^3, 20^2\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{4^2, 20^2\})$ | 12800 |
| 20 | $\mathcal{O}(0; \{2^3, 4^2, 5^3\})$ | 24 |
| 20 | $\mathcal{O}(0; \{4^4, 5^3\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 5^2, 10^2\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2, 4, 5^4, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^4, 4, 5, 10, 20\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2, 4^3, 5, 10, 20\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2^2, 4, 10^3, 20\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^7, 20^2\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^4, 4^2, 20^2\})$ | 32 |
| 20 | $\mathcal{O}(0; \{2, 4^4, 20^2\})$ | 128 |
| 20 | $\mathcal{O}(0; \{2^2, 5^2, 10, 20^2\})$ | 408 |
| 20 | $\mathcal{O}(0; \{5, 10^3, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^2, 4, 5, 20^3\})$ | 416 |
| 20 | $\mathcal{O}(0; \{4, 10^2, 20^3\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{5^2, 20^4\})$ | 6560 |
| 21 | $\mathcal{O}(1; \{3^2, 21^2\})$ | 15876 |
| 21 | $\mathcal{O}(0; \{3^4, 7^3\})$ | 180 |
| 21 | $\mathcal{O}(0; \{3^5, 21^2\})$ | 252 |
| 21 | $\mathcal{O}(0; \{3, 7^2, 21^3\})$ | 6660 |
| 22 | $\mathcal{O}(0; \{2, 11^4, 22\})$ | 9090 |
| 24 | $\mathcal{O}(1; \{3^2, 4^2\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{2, 3, 4, 12\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{2^2, 12^2\})$ | 1728 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 24 | $\mathcal{O}(1; \{12, 24^2\})$ | 9216 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 4, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3, 4, 6^2, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3^2, 8^4\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^3, 3, 8^2, 12\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3, 4^2, 8^2, 12\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3^2, 6, 8^2, 12\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2, 6^2, 8^2, 12\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2, 4, 8^2, 12^2\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2^2, 3^3, 8, 24\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2^3, 3, 6, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3, 4^2, 6, 8, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{3^2, 6^2, 8, 24\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2, 6^3, 8, 24\})$ | 24 |
| 24 | $\mathcal{O}(0; \{3^2, 4, 8, 12, 24\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2, 4, 6, 8, 12, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 3, 8, 12^2, 24\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2^3, 3, 4, 24^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3, 4^3, 24^2\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3^2, 4, 6, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2, 4, 6^2, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2, 3, 8^2, 24^2\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^4, 12, 24^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3^3, 12, 24^2\})$ | 176 |
| 24 | $\mathcal{O}(0; \{2, 4^2, 12, 24^2\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2, 3, 6, 12, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2^2, 24^4\})$ | 384 |
| 25 | $\mathcal{O}(1; \{5, 25^2\})$ | 50000 |
| 27 | $\mathcal{O}(0; \{3, 27^4\})$ | 8748 |
| 28 | $\mathcal{O}(1; \{2, 28^2\})$ | 9408 |
| 28 | $\mathcal{O}(0; \{2^2, 4, 7^2, 28\})$ | 60 |
| 28 | $\mathcal{O}(0; \{4, 7, 14^2, 28\})$ | 372 |
| 28 | $\mathcal{O}(0; \{2^5, 28^2\})$ | 12 |
| 28 | $\mathcal{O}(0; \{2^2, 4^2, 28^2\})$ | 48 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 5^2, 6\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2^2, 5^2, 6^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{5, 6^2, 10^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{5^2, 6, 10, 15\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^3, 10, 15^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3, 6, 10, 15^2\})$ | 72 |
| 30 | $\mathcal{O}(0; \{2, 3^3, 5, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 5, 6, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{5, 6^3, 30\})$ | 24 |

Continued on next page

Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 30 | $\mathcal{O}(0; \{3, 6, 10^2, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3, 5, 10, 15, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2, 15^3, 30\})$ | 312 |
| 30 | $\mathcal{O}(0; \{2^2, 3^2, 30^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^3, 6, 30^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3, 6^2, 30^2\})$ | 40 |
| 30 | $\mathcal{O}(0; \{2, 10, 15, 30^2\})$ | 104 |
| 32 | $\mathcal{O}(0; \{2, 4, 16, 32^2\})$ | 256 |
| 33 | $\mathcal{O}(0; \{3^2, 11^3\})$ | 180 |
| 34 | $\mathcal{O}(2; \emptyset)$ | 1252800 |
| 34 | $\mathcal{O}(1; \{2^4\})$ | 1152 |
| 35 | $\mathcal{O}(1; \{35^2\})$ | 29400 |
| 36 | $\mathcal{O}(1; \{18^2\})$ | 5832 |
| 36 | $\mathcal{O}(0; \{2, 4^2, 18^2\})$ | 12 |
| 36 | $\mathcal{O}(0; \{2^2, 18, 36^2\})$ | 36 |
| 36 | $\mathcal{O}(0; \{36^4\})$ | 1296 |
| 40 | $\mathcal{O}(0; \{8, 10, 20, 40\})$ | 96 |
| 40 | $\mathcal{O}(0; \{2^2, 4, 40^2\})$ | 32 |
| 40 | $\mathcal{O}(0; \{8^2, 40^2\})$ | 256 |
| 40 | $\mathcal{O}(0; \{5, 20, 40^2\})$ | 416 |
| 42 | $\mathcal{O}(0; \{2, 3^2, 7, 14\})$ | 12 |
| 42 | $\mathcal{O}(0; \{6, 7, 21, 42\})$ | 60 |
| 42 | $\mathcal{O}(0; \{2^2, 3, 42^2\})$ | 12 |
| 42 | $\mathcal{O}(0; \{6^2, 42^2\})$ | 36 |
| 44 | $\mathcal{O}(0; \{4, 11^2, 44\})$ | 180 |
| 45 | $\mathcal{O}(0; \{5, 9^2, 15\})$ | 48 |
| 45 | $\mathcal{O}(0; \{3, 9, 45^2\})$ | 144 |
| 48 | $\mathcal{O}(0; \{3, 6, 16, 48\})$ | 16 |
| 48 | $\mathcal{O}(0; \{2, 24, 48^2\})$ | 64 |
| 50 | $\mathcal{O}(0; \{2, 10, 50^2\})$ | 80 |
| 51 | $\mathcal{O}(1; \{3^2\})$ | 5184 |
| 54 | $\mathcal{O}(0; \{2, 6, 27^2\})$ | 36 |
| 56 | $\mathcal{O}(0; \{2, 7, 8, 56\})$ | 24 |
| 56 | $\mathcal{O}(0; \{2, 4, 56^2\})$ | 48 |
| 60 | $\mathcal{O}(0; \{2, 3, 60^2\})$ | 16 |
| 68 | $\mathcal{O}(1; \{2^2\})$ | 3456 |
| 70 | $\mathcal{O}(0; \{2^2, 70^2\})$ | 24 |
| 71 | $\mathcal{O}(0; \{71^3\})$ | 4830 |
| 72 | $\mathcal{O}(0; \{36, 72^2\})$ | 144 |
| 75 | $\mathcal{O}(0; \{15, 75^2\})$ | 160 |
| 77 | $\mathcal{O}(0; \{11, 77^2\})$ | 540 |
| 80 | $\mathcal{O}(0; \{8, 80^2\})$ | 128 |
| 84 | $\mathcal{O}(0; \{6, 84^2\})$ | 24 |

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Table 5 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------------|---|
| 88 | $\mathcal{O}(0; \{8, 11, 88\})$ | 40 |
| 105 | $\mathcal{O}(0; \{3, 105^2\})$ | 48 |
| 140 | $\mathcal{O}(0; \{2, 140^2\})$ | 48 |
| 142 | $\mathcal{O}(0; \{2, 71, 142\})$ | 70 |

Table 6: 36-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------|---|
| 1 | $\mathcal{O}(36; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(18; \{2^2\})$ | 68719476736 |
| 2 | $\mathcal{O}(17; \{2^6\})$ | 17179869184 |
| 2 | $\mathcal{O}(16; \{2^{10}\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^{14}\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{18}\})$ | 268435456 |
| 2 | $\mathcal{O}(13; \{2^{22}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{26}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{30}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{34}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{38}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{42}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{46}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{50}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{54}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{58}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{62}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{66}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{70}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{74}\})$ | 1 |
| 3 | $\mathcal{O}(12; \{3^2\})$ | 564859072962 |
| 3 | $\mathcal{O}(11; \{3^5\})$ | 313810596090 |
| 3 | $\mathcal{O}(10; \{3^8\})$ | 299863458486 |
| 3 | $\mathcal{O}(9; \{3^{11}\})$ | 264220773498 |
| 3 | $\mathcal{O}(8; \{3^{14}\})$ | 235121190102 |
| 3 | $\mathcal{O}(7; \{3^{17}\})$ | 208967915610 |
| 3 | $\mathcal{O}(6; \{3^{20}\})$ | 185752446966 |
| 3 | $\mathcal{O}(5; \{3^{23}\})$ | 165112931898 |
| 3 | $\mathcal{O}(4; \{3^{26}\})$ | 146767089942 |
| 3 | $\mathcal{O}(3; \{3^{29}\})$ | 130459631130 |
| 3 | $\mathcal{O}(2; \{3^{32}\})$ | 115964117046 |
| 3 | $\mathcal{O}(1; \{3^{35}\})$ | 103079215098 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------|---|
| 3 | $O(0; \{3^{38}\})$ | 91625968982 |
| 4 | $O(9; \{4^2\})$ | 137438953472 |
| 4 | $O(8; \{2^4, 4^2\})$ | 8589934592 |
| 4 | $O(8; \{2, 4^4\})$ | 34359738368 |
| 4 | $O(7; \{2^8, 4^2\})$ | 536870912 |
| 4 | $O(7; \{2^5, 4^4\})$ | 2147483648 |
| 4 | $O(7; \{2^2, 4^6\})$ | 8589934592 |
| 4 | $O(6; \{2^{12}, 4^2\})$ | 33554432 |
| 4 | $O(6; \{2^9, 4^4\})$ | 134217728 |
| 4 | $O(6; \{2^6, 4^6\})$ | 536870912 |
| 4 | $O(6; \{2^3, 4^8\})$ | 2147483648 |
| 4 | $O(6; \{4^{10}\})$ | 8589934592 |
| 4 | $O(5; \{2^{16}, 4^2\})$ | 2097152 |
| 4 | $O(5; \{2^{13}, 4^4\})$ | 8388608 |
| 4 | $O(5; \{2^{10}, 4^6\})$ | 33554432 |
| 4 | $O(5; \{2^7, 4^8\})$ | 134217728 |
| 4 | $O(5; \{2^4, 4^{10}\})$ | 536870912 |
| 4 | $O(5; \{2, 4^{12}\})$ | 2147483648 |
| 4 | $O(4; \{2^{20}, 4^2\})$ | 131072 |
| 4 | $O(4; \{2^{17}, 4^4\})$ | 524288 |
| 4 | $O(4; \{2^{14}, 4^6\})$ | 2097152 |
| 4 | $O(4; \{2^{11}, 4^8\})$ | 8388608 |
| 4 | $O(4; \{2^8, 4^{10}\})$ | 33554432 |
| 4 | $O(4; \{2^5, 4^{12}\})$ | 134217728 |
| 4 | $O(4; \{2^2, 4^{14}\})$ | 536870912 |
| 4 | $O(3; \{2^{24}, 4^2\})$ | 8192 |
| 4 | $O(3; \{2^{21}, 4^4\})$ | 32768 |
| 4 | $O(3; \{2^{18}, 4^6\})$ | 131072 |
| 4 | $O(3; \{2^{15}, 4^8\})$ | 524288 |
| 4 | $O(3; \{2^{12}, 4^{10}\})$ | 2097152 |
| 4 | $O(3; \{2^9, 4^{12}\})$ | 8388608 |
| 4 | $O(3; \{2^6, 4^{14}\})$ | 33554432 |
| 4 | $O(3; \{2^3, 4^{16}\})$ | 134217728 |
| 4 | $O(3; \{4^{18}\})$ | 536870912 |
| 4 | $O(2; \{2^{28}, 4^2\})$ | 512 |
| 4 | $O(2; \{2^{25}, 4^4\})$ | 2048 |
| 4 | $O(2; \{2^{22}, 4^6\})$ | 8192 |
| 4 | $O(2; \{2^{19}, 4^8\})$ | 32768 |
| 4 | $O(2; \{2^{16}, 4^{10}\})$ | 131072 |
| 4 | $O(2; \{2^{13}, 4^{12}\})$ | 524288 |
| 4 | $O(2; \{2^{10}, 4^{14}\})$ | 2097152 |
| 4 | $O(2; \{2^7, 4^{16}\})$ | 8388608 |
| 4 | $O(2; \{2^4, 4^{18}\})$ | 33554432 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------|---|
| 4 | $O(2; \{2, 4^{20}\})$ | 134217728 |
| 4 | $O(1; \{2^{32}, 4^2\})$ | 32 |
| 4 | $O(1; \{2^{29}, 4^4\})$ | 128 |
| 4 | $O(1; \{2^{26}, 4^6\})$ | 512 |
| 4 | $O(1; \{2^{23}, 4^8\})$ | 2048 |
| 4 | $O(1; \{2^{20}, 4^{10}\})$ | 8192 |
| 4 | $O(1; \{2^{17}, 4^{12}\})$ | 32768 |
| 4 | $O(1; \{2^{14}, 4^{14}\})$ | 131072 |
| 4 | $O(1; \{2^{11}, 4^{16}\})$ | 524288 |
| 4 | $O(1; \{2^8, 4^{18}\})$ | 2097152 |
| 4 | $O(1; \{2^5, 4^{20}\})$ | 8388608 |
| 4 | $O(1; \{2^2, 4^{22}\})$ | 33554432 |
| 4 | $O(0; \{2^{36}, 4^2\})$ | 2 |
| 4 | $O(0; \{2^{33}, 4^4\})$ | 8 |
| 4 | $O(0; \{2^{30}, 4^6\})$ | 32 |
| 4 | $O(0; \{2^{27}, 4^8\})$ | 128 |
| 4 | $O(0; \{2^{24}, 4^{10}\})$ | 512 |
| 4 | $O(0; \{2^{21}, 4^{12}\})$ | 2048 |
| 4 | $O(0; \{2^{18}, 4^{14}\})$ | 8192 |
| 4 | $O(0; \{2^{15}, 4^{16}\})$ | 32768 |
| 4 | $O(0; \{2^{12}, 4^{18}\})$ | 131072 |
| 4 | $O(0; \{2^9, 4^{20}\})$ | 524288 |
| 4 | $O(0; \{2^6, 4^{22}\})$ | 2097152 |
| 4 | $O(0; \{2^3, 4^{24}\})$ | 8388608 |
| 4 | $O(0; \{4^{26}\})$ | 33554432 |
| 5 | $O(8; \emptyset)$ | 152587890624 |
| 5 | $O(6; \{5^5\})$ | 49804687500 |
| 5 | $O(4; \{5^{10}\})$ | 81920312500 |
| 5 | $O(2; \{5^{15}\})$ | 134217727500 |
| 5 | $O(0; \{5^{20}\})$ | 219902325556 |
| 6 | $O(6; \{6^2\})$ | 4353564672 |
| 6 | $O(5; \{2^2, 3^4\})$ | 362797056 |
| 6 | $O(5; \{2^3, 3^2, 6\})$ | 120932352 |
| 6 | $O(5; \{2^4, 6^2\})$ | 120932352 |
| 6 | $O(5; \{3^3, 6^2\})$ | 604661760 |
| 6 | $O(5; \{2, 3, 6^3\})$ | 362797056 |
| 6 | $O(4; \{2^6, 3^4\})$ | 10077696 |
| 6 | $O(4; \{2^2, 3^7\})$ | 70543872 |
| 6 | $O(4; \{2^7, 3^2, 6\})$ | 3359232 |
| 6 | $O(4; \{2^3, 3^5, 6\})$ | 36951552 |
| 6 | $O(4; \{2^8, 6^2\})$ | 3359232 |
| 6 | $O(4; \{2^4, 3^3, 6^2\})$ | 16796160 |
| 6 | $O(4; \{3^6, 6^2\})$ | 144446976 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(4; \{2^5, 3, 6^3\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2, 3^4, 6^3\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^2, 3^2, 6^4\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2^3, 6^5\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{3, 6^6\})$ | 70543872 |
| 6 | $\mathcal{O}(3; \{2^{10}, 3^4\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^6, 3^7\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^2, 3^{10}\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^{11}, 3^2, 6\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^7, 3^5, 6\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^3, 3^8, 6\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^{12}, 6^2\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^8, 3^3, 6^2\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^4, 3^6, 6^2\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{3^9, 6^2\})$ | 31819392 |
| 6 | $\mathcal{O}(3; \{2^9, 3, 6^3\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^5, 3^4, 6^3\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2, 3^7, 6^3\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^6, 3^2, 6^4\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^2, 3^5, 6^4\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^7, 6^5\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^3, 3^3, 6^5\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^4, 3, 6^6\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{3^4, 6^6\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2, 3^2, 6^7\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^2, 6^8\})$ | 4012416 |
| 6 | $\mathcal{O}(2; \{2^{14}, 3^4\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3^7\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^6, 3^{10}\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^2, 3^{13}\})$ | 3538080 |
| 6 | $\mathcal{O}(2; \{2^{15}, 3^2, 6\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{11}, 3^5, 6\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^7, 3^8, 6\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^3, 3^{11}, 6\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2^{16}, 6^2\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{12}, 3^3, 6^2\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^8, 3^6, 6^2\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^4, 3^9, 6^2\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{3^{12}, 6^2\})$ | 7078752 |
| 6 | $\mathcal{O}(2; \{2^{13}, 3, 6^3\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^9, 3^4, 6^3\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^5, 3^7, 6^3\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2, 3^{10}, 6^3\})$ | 3538080 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------|---|
| 6 | $O(2; \{2^{10}, 3^2, 6^4\})$ | 28512 |
| 6 | $O(2; \{2^6, 3^5, 6^4\})$ | 220320 |
| 6 | $O(2; \{2^2, 3^8, 6^4\})$ | 1770336 |
| 6 | $O(2; \{2^{11}, 6^5\})$ | 12960 |
| 6 | $O(2; \{2^7, 3^3, 6^5\})$ | 111456 |
| 6 | $O(2; \{2^3, 3^6, 6^5\})$ | 883872 |
| 6 | $O(2; \{2^8, 3, 6^6\})$ | 54432 |
| 6 | $O(2; \{2^4, 3^4, 6^6\})$ | 443232 |
| 6 | $O(2; \{3^7, 6^6\})$ | 3538080 |
| 6 | $O(2; \{2^5, 3^2, 6^7\})$ | 220320 |
| 6 | $O(2; \{2, 3^5, 6^7\})$ | 1770336 |
| 6 | $O(2; \{2^6, 6^8\})$ | 111456 |
| 6 | $O(2; \{2^2, 3^3, 6^8\})$ | 883872 |
| 6 | $O(2; \{2^3, 3, 6^9\})$ | 443232 |
| 6 | $O(2; \{3^2, 6^{10}\})$ | 1770336 |
| 6 | $O(2; \{2, 6^{11}\})$ | 883872 |
| 6 | $O(1; \{2^{18}, 3^4\})$ | 216 |
| 6 | $O(1; \{2^{14}, 3^7\})$ | 1512 |
| 6 | $O(1; \{2^{10}, 3^{10}\})$ | 12312 |
| 6 | $O(1; \{2^6, 3^{13}\})$ | 98280 |
| 6 | $O(1; \{2^2, 3^{16}\})$ | 786456 |
| 6 | $O(1; \{2^{19}, 3^2, 6\})$ | 72 |
| 6 | $O(1; \{2^{15}, 3^5, 6\})$ | 792 |
| 6 | $O(1; \{2^{11}, 3^8, 6\})$ | 6120 |
| 6 | $O(1; \{2^7, 3^{11}, 6\})$ | 49176 |
| 6 | $O(1; \{2^3, 3^{14}, 6\})$ | 393192 |
| 6 | $O(1; \{2^{20}, 6^2\})$ | 72 |
| 6 | $O(1; \{2^{16}, 3^3, 6^2\})$ | 360 |
| 6 | $O(1; \{2^{12}, 3^6, 6^2\})$ | 3096 |
| 6 | $O(1; \{2^8, 3^9, 6^2\})$ | 24552 |
| 6 | $O(1; \{2^4, 3^{12}, 6^2\})$ | 196632 |
| 6 | $O(1; \{3^{15}, 6^2\})$ | 1572840 |
| 6 | $O(1; \{2^{17}, 3, 6^3\})$ | 216 |
| 6 | $O(1; \{2^{13}, 3^4, 6^3\})$ | 1512 |
| 6 | $O(1; \{2^9, 3^7, 6^3\})$ | 12312 |
| 6 | $O(1; \{2^5, 3^{10}, 6^3\})$ | 98280 |
| 6 | $O(1; \{2, 3^{13}, 6^3\})$ | 786456 |
| 6 | $O(1; \{2^{14}, 3^2, 6^4\})$ | 792 |
| 6 | $O(1; \{2^{10}, 3^5, 6^4\})$ | 6120 |
| 6 | $O(1; \{2^6, 3^8, 6^4\})$ | 49176 |
| 6 | $O(1; \{2^2, 3^{11}, 6^4\})$ | 393192 |
| 6 | $O(1; \{2^{15}, 6^5\})$ | 360 |
| 6 | $O(1; \{2^{11}, 3^3, 6^5\})$ | 3096 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(1; \{2^7, 3^6, 6^5\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^3, 3^9, 6^5\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3, 6^6\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^8, 3^4, 6^6\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^4, 3^7, 6^6\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{3^{10}, 6^6\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^9, 3^2, 6^7\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^5, 3^5, 6^7\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2, 3^8, 6^7\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{10}, 6^8\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^6, 3^3, 6^8\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^2, 3^6, 6^8\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^7, 3, 6^9\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^3, 3^4, 6^9\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^4, 3^2, 6^{10}\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{3^5, 6^{10}\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^5, 6^{11}\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2, 3^3, 6^{11}\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^2, 3, 6^{12}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{6^{14}\})$ | 196632 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3^4\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^7\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^{10}\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{13}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{16}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{19}\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{23}, 3^2, 6\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^5, 6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^8, 6\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^{11}, 6\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{14}, 6\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{17}, 6\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{24}, 6^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^3, 6^2\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^6, 6^2\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^9, 6^2\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{12}, 6^2\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{15}, 6^2\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{3^{18}, 6^2\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{21}, 3, 6^3\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^4, 6^3\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^7, 6^3\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^9, 3^{10}, 6^3\})$ | 2730 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2^5, 3^{13}, 6^3\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2, 3^{16}, 6^3\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^2, 6^4\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^5, 6^4\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^8, 6^4\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{11}, 6^4\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{14}, 6^4\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{19}, 6^5\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^3, 6^5\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^6, 6^5\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^7, 3^9, 6^5\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{12}, 6^5\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3, 6^6\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^4, 6^6\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^8, 3^7, 6^6\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{10}, 6^6\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{3^{13}, 6^6\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^2, 6^7\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^9, 3^5, 6^7\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^5, 3^8, 6^7\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2, 3^{11}, 6^7\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{14}, 6^8\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^3, 6^8\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^6, 3^6, 6^8\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^2, 3^9, 6^8\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3, 6^9\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^7, 3^4, 6^9\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^3, 3^7, 6^9\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^8, 3^2, 6^{10}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^4, 3^5, 6^{10}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{3^8, 6^{10}\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^9, 6^{11}\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^5, 3^3, 6^{11}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2, 3^6, 6^{11}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^6, 3, 6^{12}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^2, 3^4, 6^{12}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^3, 3^2, 6^{13}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^4, 6^{14}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{3^3, 6^{14}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2, 3, 6^{15}\})$ | 21846 |
| 7 | $\mathcal{O}(6; \emptyset)$ | 13841287200 |
| 7 | $\mathcal{O}(3; \{7^7\})$ | 4704783510 |
| 7 | $\mathcal{O}(0; \{7^{14}\})$ | 11194880586 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(4; \{2^2, 8^2\})$ | 67108864 |
| 8 | $\mathcal{O}(3; \{2^6, 8^2\})$ | 1048576 |
| 8 | $\mathcal{O}(3; \{2^3, 4^2, 8^2\})$ | 4194304 |
| 8 | $\mathcal{O}(3; \{4^4, 8^2\})$ | 16777216 |
| 8 | $\mathcal{O}(3; \{2, 4, 8^4\})$ | 33554432 |
| 8 | $\mathcal{O}(2; \{2^{10}, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(2; \{2^7, 4^2, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(2; \{2^4, 4^4, 8^2\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2, 4^6, 8^2\})$ | 1048576 |
| 8 | $\mathcal{O}(2; \{2^5, 4, 8^4\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{2^2, 4^3, 8^4\})$ | 2097152 |
| 8 | $\mathcal{O}(2; \{2^3, 8^6\})$ | 4194304 |
| 8 | $\mathcal{O}(2; \{4^2, 8^6\})$ | 16777216 |
| 8 | $\mathcal{O}(1; \{2^{14}, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(1; \{2^{11}, 4^2, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(1; \{2^8, 4^4, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^5, 4^6, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(1; \{2^2, 4^8, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^9, 4, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^6, 4^3, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2^3, 4^5, 8^4\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{4^7, 8^4\})$ | 524288 |
| 8 | $\mathcal{O}(1; \{2^7, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^4, 4^2, 8^6\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{2, 4^4, 8^6\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{2^2, 4, 8^8\})$ | 2097152 |
| 8 | $\mathcal{O}(1; \{8^{10}\})$ | 16777216 |
| 8 | $\mathcal{O}(0; \{2^{18}, 8^2\})$ | 4 |
| 8 | $\mathcal{O}(0; \{2^{15}, 4^2, 8^2\})$ | 16 |
| 8 | $\mathcal{O}(0; \{2^{12}, 4^4, 8^2\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^9, 4^6, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^6, 4^8, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^3, 4^{10}, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{4^{12}, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^{13}, 4, 8^4\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^{10}, 4^3, 8^4\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^7, 4^5, 8^4\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^4, 4^7, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2, 4^9, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^{11}, 8^6\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^8, 4^2, 8^6\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^5, 4^4, 8^6\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^2, 4^6, 8^6\})$ | 65536 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---------------------------------------|---|
| 8 | $\mathcal{O}(0; \{2^6, 4, 8^8\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^3, 4^3, 8^8\})$ | 131072 |
| 8 | $\mathcal{O}(0; \{4^5, 8^8\})$ | 524288 |
| 8 | $\mathcal{O}(0; \{2^4, 8^{10}\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{2, 4^2, 8^{10}\})$ | 1048576 |
| 9 | $\mathcal{O}(4; \{9^2\})$ | 258280326 |
| 9 | $\mathcal{O}(3; \{3^3, 9^2\})$ | 25509168 |
| 9 | $\mathcal{O}(2; \{3^6, 9^2\})$ | 2519424 |
| 9 | $\mathcal{O}(2; \{3^2, 9^5\})$ | 21257640 |
| 9 | $\mathcal{O}(1; \{3^9, 9^2\})$ | 248832 |
| 9 | $\mathcal{O}(1; \{3^5, 9^5\})$ | 2099520 |
| 9 | $\mathcal{O}(1; \{3, 9^8\})$ | 30469284 |
| 9 | $\mathcal{O}(0; \{3^{12}, 9^2\})$ | 24576 |
| 9 | $\mathcal{O}(0; \{3^8, 9^5\})$ | 207360 |
| 9 | $\mathcal{O}(0; \{3^4, 9^8\})$ | 3009312 |
| 9 | $\mathcal{O}(0; \{9^{11}\})$ | 40271418 |
| 10 | $\mathcal{O}(4; \{2^2\})$ | 99999744 |
| 10 | $\mathcal{O}(3; \{2^6\})$ | 999936 |
| 10 | $\mathcal{O}(3; \{2, 5^2, 10\})$ | 12000000 |
| 10 | $\mathcal{O}(2; \{2^{10}\})$ | 9984 |
| 10 | $\mathcal{O}(2; \{2^2, 5^5\})$ | 2040000 |
| 10 | $\mathcal{O}(2; \{2^5, 5^2, 10\})$ | 120000 |
| 10 | $\mathcal{O}(2; \{5^4, 10^2\})$ | 8200000 |
| 10 | $\mathcal{O}(2; \{2^3, 5, 10^3\})$ | 520000 |
| 10 | $\mathcal{O}(2; \{2, 10^5\})$ | 2040000 |
| 10 | $\mathcal{O}(1; \{2^{14}\})$ | 96 |
| 10 | $\mathcal{O}(1; \{2^6, 5^5\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2^9, 5^2, 10\})$ | 1200 |
| 10 | $\mathcal{O}(1; \{2, 5^7, 10\})$ | 1310800 |
| 10 | $\mathcal{O}(1; \{2^4, 5^4, 10^2\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^7, 5, 10^3\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{2^2, 5^3, 10^4\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^5, 10^5\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{5^2, 10^6\})$ | 1310800 |
| 10 | $\mathcal{O}(0; \{2^{10}, 5^5\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2^2, 5^{10}\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^{13}, 5^2, 10\})$ | 12 |
| 10 | $\mathcal{O}(0; \{2^5, 5^7, 10\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^8, 5^4, 10^2\})$ | 820 |
| 10 | $\mathcal{O}(0; \{5^9, 10^2\})$ | 838860 |
| 10 | $\mathcal{O}(0; \{2^{11}, 5, 10^3\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^3, 5^6, 10^3\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^6, 5^3, 10^4\})$ | 3276 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 10 | $\mathcal{O}(0; \{2^9, 10^5\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2, 5^5, 10^5\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^4, 5^2, 10^6\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^2, 5, 10^8\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{10^{10}\})$ | 209716 |
| 11 | $\mathcal{O}(1; \{11^7\})$ | 109999890 |
| 12 | $\mathcal{O}(3; \{12^2\})$ | 11943936 |
| 12 | $\mathcal{O}(2; \{2^2, 3^2, 4^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3, 4^2, 6^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^3, 3, 4, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3, 4^3, 12\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{3^2, 4, 6, 12\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2, 4, 6^2, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^4, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3^3, 12^2\})$ | 414720 |
| 12 | $\mathcal{O}(2; \{2, 4^2, 12^2\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{2, 3, 6, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(1; \{2^6, 3^2, 4^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^5, 4^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 4^4\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^2, 4^6\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^3, 3^3, 4^2, 6\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^3, 4^4, 6\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 4^2, 6^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^4, 4^2, 6^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^4, 6^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^2, 6^3\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^2, 4^2, 6^4\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^7, 3, 4, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^3, 3^4, 4, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 4^3, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^4, 4^3, 12\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^5, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 4, 6, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^5, 4, 6, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^3, 6, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^5, 4, 6^2, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4, 6^2, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 4^3, 6^2, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4, 6^3, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{4, 6^5, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^8, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^4, 3^3, 12^2\})$ | 2880 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{3^6, 12^2\})$ | 24768 |
| 12 | $\mathcal{O}(1; \{2^5, 4^2, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4^2, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^2, 4^4, 12^2\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 6, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 6, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^2, 6, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 6^2, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^3, 6^3, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{4^2, 6^3, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{3, 6^4, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^3, 4, 6, 12^3\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{4^3, 6, 12^3\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{3, 4, 6^2, 12^3\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 12^4\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{3, 4^2, 12^4\})$ | 46080 |
| 12 | $\mathcal{O}(1; \{3^2, 6, 12^4\})$ | 48384 |
| 12 | $\mathcal{O}(1; \{2, 6^2, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2, 4, 12^5\})$ | 46080 |
| 12 | $\mathcal{O}(0; \{2^{10}, 3^2, 4^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^5, 4^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^8, 4^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 4^4\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 4^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^5, 4^6\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^8\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3^3, 4^2, 6\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^6, 4^2, 6\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4^4, 6\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^6, 4^4, 6\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^6, 6\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 4^2, 6^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 4^2, 6^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^7, 4^2, 6^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^4, 6^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^4, 6^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^6, 6^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^2, 6^3\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^2, 6^3\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^4, 6^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^6, 4^2, 6^4\})$ | 12 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^2, 6^4\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 4^4, 6^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{4^6, 6^4\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^2, 6^5\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3, 4^4, 6^5\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^2, 4^2, 6^6\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2, 4^2, 6^7\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^{11}, 3, 4, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^7, 3^4, 4, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^7, 4, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 4^3, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 4^3, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^7, 4^3, 12\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^5, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^5, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^7, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^8, 3^2, 4, 6, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^5, 4, 6, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^8, 4, 6, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^3, 6, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^3, 6, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^5, 6, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^9, 4, 6^2, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4, 6^2, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4, 6^2, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 4^3, 6^2, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^3, 6^2, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 4^5, 6^2, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{4^7, 6^2, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4, 6^3, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4, 6^3, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^3, 6^3, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3, 4^5, 6^3, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4, 6^4, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^2, 4^3, 6^4, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 4, 6^5, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^3, 4, 6^5, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 4^3, 6^5, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3, 4, 6^6, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^{12}, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^8, 3^3, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^4, 3^6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3^9, 12^2\})$ | 1364 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^9, 4^2, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4^2, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4^2, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^6, 4^4, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^4, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^3, 4^6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{4^8, 12^2\})$ | 1024 |
| 12 | $\mathcal{O}(0; \{2^9, 3, 6, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 6, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 6, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^2, 6, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^2, 6, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^4, 6, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3, 4^6, 6, 12^2\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 6^2, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 6^2, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^2, 6^2, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^2, 4^4, 6^2, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^7, 6^3, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 6^3, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^4, 4^2, 6^3, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^3, 4^2, 6^3, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 4^4, 6^3, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 6^4, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^4, 6^4, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^2, 6^4, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 6^5, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^2, 6^6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^3, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3^2, 4^5, 12^3\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^7, 4, 6, 12^3\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4, 6, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 4^3, 6, 12^3\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^3, 4^3, 6, 12^3\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 4^5, 6, 12^3\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4, 6^2, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^4, 4, 6^2, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^3, 6^2, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4, 6^3, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 4, 6^4, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 12^4\})$ | 80 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^2, 12^4\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3^4, 4^2, 12^4\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^4, 12^4\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 6, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^5, 6, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^2, 6, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^5, 6^2, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 6^2, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^2, 4^2, 6^2, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 6^3, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{6^5, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^5, 4, 12^5\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^2, 4^3, 12^5\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4, 6, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{4, 6^3, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 12^6\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^3, 6, 12^6\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{4^2, 6, 12^6\})$ | 5376 |
| 12 | $\mathcal{O}(0; \{3, 6^2, 12^6\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{3, 4, 12^7\})$ | 11008 |
| 12 | $\mathcal{O}(0; \{2, 12^8\})$ | 11008 |
| 13 | $\mathcal{O}(0; \{13^8\})$ | 33075516 |
| 14 | $\mathcal{O}(3; \{2^2\})$ | 7529472 |
| 14 | $\mathcal{O}(2; \{2^6\})$ | 38400 |
| 14 | $\mathcal{O}(1; \{2^{10}\})$ | 192 |
| 14 | $\mathcal{O}(1; \{2^3, 7^3, 14\})$ | 36456 |
| 14 | $\mathcal{O}(1; \{2, 7^2, 14^3\})$ | 217560 |
| 14 | $\mathcal{O}(0; \{2^2, 7^7\})$ | 39990 |
| 14 | $\mathcal{O}(0; \{2^7, 7^3, 14\})$ | 186 |
| 14 | $\mathcal{O}(0; \{7^6, 14^2\})$ | 239946 |
| 14 | $\mathcal{O}(0; \{2^5, 7^2, 14^3\})$ | 1110 |
| 14 | $\mathcal{O}(0; \{2^3, 7, 14^5\})$ | 6666 |
| 14 | $\mathcal{O}(0; \{2, 14^7\})$ | 39990 |
| 15 | $\mathcal{O}(2; \{3^4\})$ | 303264 |
| 15 | $\mathcal{O}(2; \{5, 15^2\})$ | 1215000 |
| 15 | $\mathcal{O}(1; \{3^7\})$ | 9072 |
| 15 | $\mathcal{O}(1; \{3^2, 5^3, 15\})$ | 23400 |
| 15 | $\mathcal{O}(1; \{3^3, 5, 15^2\})$ | 27000 |
| 15 | $\mathcal{O}(1; \{15^5\})$ | 459000 |
| 15 | $\mathcal{O}(0; \{3^4, 5^5\})$ | 1224 |
| 15 | $\mathcal{O}(0; \{3^5, 5^3, 15\})$ | 1144 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 15 | $\mathcal{O}(0; \{3^6, 5, 15^2\})$ | 1032 |
| 15 | $\mathcal{O}(0; \{5^6, 15^2\})$ | 26216 |
| 15 | $\mathcal{O}(0; \{3, 5^4, 15^3\})$ | 19656 |
| 15 | $\mathcal{O}(0; \{3^2, 5^2, 15^4\})$ | 18040 |
| 15 | $\mathcal{O}(0; \{3^3, 15^5\})$ | 17544 |
| 16 | $\mathcal{O}(2; \{2, 16^2\})$ | 524288 |
| 16 | $\mathcal{O}(1; \{2^5, 16^2\})$ | 2048 |
| 16 | $\mathcal{O}(1; \{2^2, 4^2, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(1; \{4, 8^2, 16^2\})$ | 65536 |
| 16 | $\mathcal{O}(0; \{2^9, 16^2\})$ | 8 |
| 16 | $\mathcal{O}(0; \{2^6, 4^2, 16^2\})$ | 32 |
| 16 | $\mathcal{O}(0; \{2^3, 4^4, 16^2\})$ | 128 |
| 16 | $\mathcal{O}(0; \{4^6, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{2^4, 4, 8^2, 16^2\})$ | 256 |
| 16 | $\mathcal{O}(0; \{2, 4^3, 8^2, 16^2\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{2^2, 8^4, 16^2\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{2^2, 4, 8, 16^4\})$ | 4096 |
| 16 | $\mathcal{O}(0; \{8^3, 16^4\})$ | 32768 |
| 16 | $\mathcal{O}(0; \{4, 16^6\})$ | 65536 |
| 18 | $\mathcal{O}(2; \{18^2\})$ | 629856 |
| 18 | $\mathcal{O}(1; \{2, 3, 9^2, 18\})$ | 11664 |
| 18 | $\mathcal{O}(1; \{2^4, 18^2\})$ | 1944 |
| 18 | $\mathcal{O}(1; \{3^3, 18^2\})$ | 15552 |
| 18 | $\mathcal{O}(1; \{2, 3, 6, 18^2\})$ | 7776 |
| 18 | $\mathcal{O}(0; \{2^2, 3^2, 9^4\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^3, 6, 9^4\})$ | 324 |
| 18 | $\mathcal{O}(0; \{3, 6^2, 9^4\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2^5, 3, 9^2, 18\})$ | 36 |
| 18 | $\mathcal{O}(0; \{2, 3^4, 9^2, 18\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2^2, 3^2, 6, 9^2, 18\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^3, 6^2, 9^2, 18\})$ | 72 |
| 18 | $\mathcal{O}(0; \{3, 6^3, 9^2, 18\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2, 9^5, 18\})$ | 5346 |
| 18 | $\mathcal{O}(0; \{2^8, 18^2\})$ | 6 |
| 18 | $\mathcal{O}(0; \{2^4, 3^3, 18^2\})$ | 48 |
| 18 | $\mathcal{O}(0; \{3^6, 18^2\})$ | 384 |
| 18 | $\mathcal{O}(0; \{2^5, 3, 6, 18^2\})$ | 24 |
| 18 | $\mathcal{O}(0; \{2, 3^4, 6, 18^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^2, 3^2, 6^2, 18^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^3, 6^3, 18^2\})$ | 48 |
| 18 | $\mathcal{O}(0; \{3, 6^4, 18^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{3^2, 9^3, 18^2\})$ | 3240 |
| 18 | $\mathcal{O}(0; \{2, 6, 9^3, 18^2\})$ | 1620 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 18 | $\mathcal{O}(0; \{2^3, 3, 9, 18^3\})$ | 324 |
| 18 | $\mathcal{O}(0; \{3^2, 6, 9, 18^3\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2, 6^2, 9, 18^3\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2, 3, 18^5\})$ | 1620 |
| 19 | $\mathcal{O}(0; \{19^6\})$ | 1790118 |
| 20 | $\mathcal{O}(2; \{4^2\})$ | 319488 |
| 20 | $\mathcal{O}(1; \{2^4, 4^2\})$ | 768 |
| 20 | $\mathcal{O}(1; \{2, 4^4\})$ | 3072 |
| 20 | $\mathcal{O}(1; \{2^2, 4, 5, 20\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{4, 10^2, 20\})$ | 9600 |
| 20 | $\mathcal{O}(1; \{5^2, 20^2\})$ | 41600 |
| 20 | $\mathcal{O}(0; \{4^2, 5^5\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^3, 4^2, 5^2, 10\})$ | 24 |
| 20 | $\mathcal{O}(0; \{4^4, 5^2, 10\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 5, 10^3\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^6, 4, 5, 20\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^3, 4^3, 5, 20\})$ | 32 |
| 20 | $\mathcal{O}(0; \{4^5, 5, 20\})$ | 128 |
| 20 | $\mathcal{O}(0; \{2, 4, 5^3, 10, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^4, 4, 10^2, 20\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2, 4^3, 10^2, 20\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2^4, 5^2, 20^2\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 5^2, 20^2\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2^2, 5, 10^2, 20^2\})$ | 408 |
| 20 | $\mathcal{O}(0; \{10^4, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^2, 4, 10, 20^3\})$ | 416 |
| 20 | $\mathcal{O}(0; \{5, 10, 20^4\})$ | 6560 |
| 20 | $\mathcal{O}(0; \{4, 20^5\})$ | 6528 |
| 21 | $\mathcal{O}(2; \{3^2\})$ | 388800 |
| 21 | $\mathcal{O}(1; \{3^5\})$ | 4320 |
| 21 | $\mathcal{O}(1; \{3, 7^2, 21\})$ | 26460 |
| 21 | $\mathcal{O}(0; \{3^4, 7^2, 21\})$ | 300 |
| 21 | $\mathcal{O}(0; \{7^4, 21^2\})$ | 13332 |
| 21 | $\mathcal{O}(0; \{3, 7, 21^4\})$ | 11100 |
| 22 | $\mathcal{O}(0; \{2^3, 11^3, 22\})$ | 910 |
| 22 | $\mathcal{O}(0; \{2, 11^2, 22^3\})$ | 9090 |
| 24 | $\mathcal{O}(1; \{2^2, 24^2\})$ | 4608 |
| 24 | $\mathcal{O}(0; \{2, 3^4, 8^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 6, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2^3, 6^2, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{4^2, 6^2, 8^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{3, 6^3, 8^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{3, 4, 6, 8^2, 12\})$ | 32 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 24 | $\mathcal{O}(0; \{3^2, 8^2, 12^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2, 6, 8^2, 12^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 4, 8, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2^3, 4, 6, 8, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{4^3, 6, 8, 24\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3, 4, 6^2, 8, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{3^2, 8^3, 24\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2, 6, 8^3, 24\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^3, 3, 8, 12, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3, 4^2, 8, 12, 24\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3^2, 6, 8, 12, 24\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2, 6^2, 8, 12, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2, 4, 8, 12^2, 24\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2^6, 24^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2^2, 3^3, 24^2\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2^3, 4^2, 24^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{4^4, 24^2\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^3, 3, 6, 24^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{3, 4^2, 6, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{3^2, 6^2, 24^2\})$ | 88 |
| 24 | $\mathcal{O}(0; \{2, 6^3, 24^2\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2, 4, 8^2, 24^2\})$ | 256 |
| 24 | $\mathcal{O}(0; \{3^2, 4, 12, 24^2\})$ | 160 |
| 24 | $\mathcal{O}(0; \{2, 4, 6, 12, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2, 3, 12^2, 24^2\})$ | 160 |
| 24 | $\mathcal{O}(0; \{2, 3, 8, 24^3\})$ | 384 |
| 25 | $\mathcal{O}(0; \{25^5\})$ | 127500 |
| 26 | $\mathcal{O}(0; \{2^2, 13^4\})$ | 1596 |
| 26 | $\mathcal{O}(0; \{13^3, 26^2\})$ | 19140 |
| 27 | $\mathcal{O}(1; \{3, 27^2\})$ | 26244 |
| 27 | $\mathcal{O}(0; \{3^4, 27^2\})$ | 288 |
| 27 | $\mathcal{O}(0; \{9^3, 27^2\})$ | 3888 |
| 28 | $\mathcal{O}(1; \{2^2, 4^2\})$ | 1536 |
| 28 | $\mathcal{O}(0; \{2^2, 4, 7, 14, 28\})$ | 60 |
| 28 | $\mathcal{O}(0; \{4, 14^3, 28\})$ | 372 |
| 28 | $\mathcal{O}(0; \{7^3, 28^2\})$ | 2220 |
| 28 | $\mathcal{O}(0; \{4, 7, 28^3\})$ | 1488 |
| 30 | $\mathcal{O}(1; \{2^2, 3^2\})$ | 1728 |
| 30 | $\mathcal{O}(1; \{3, 6^2\})$ | 1728 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 5^2, 10\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 3^3, 10, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 6, 10, 15\})$ | 8 |
| 30 | $\mathcal{O}(0; \{6^3, 10, 15\})$ | 24 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 30 | $\mathcal{O}(0; \{2^2, 3, 5, 15^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{5, 6^2, 15^2\})$ | 72 |
| 30 | $\mathcal{O}(0; \{3, 10^2, 15^2\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 5, 10, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{5, 6^2, 10, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3, 10^3, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{5^2, 6, 15, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^3, 15^2, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3, 6, 15^2, 30\})$ | 120 |
| 30 | $\mathcal{O}(0; \{5^3, 30^2\})$ | 408 |
| 30 | $\mathcal{O}(0; \{2^3, 10, 30^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3, 6, 10, 30^2\})$ | 72 |
| 30 | $\mathcal{O}(0; \{3, 5, 15, 30^2\})$ | 312 |
| 30 | $\mathcal{O}(0; \{2, 15, 30^3\})$ | 312 |
| 32 | $\mathcal{O}(0; \{2^3, 4, 32^2\})$ | 32 |
| 32 | $\mathcal{O}(0; \{4^3, 32^2\})$ | 128 |
| 32 | $\mathcal{O}(0; \{2, 8^2, 32^2\})$ | 256 |
| 33 | $\mathcal{O}(0; \{3^2, 11^2, 33\})$ | 180 |
| 35 | $\mathcal{O}(2; \emptyset)$ | 1497600 |
| 36 | $\mathcal{O}(1; \{36^2\})$ | 15552 |
| 36 | $\mathcal{O}(0; \{3, 4^2, 9^2\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2, 4, 9^2, 12\})$ | 24 |
| 36 | $\mathcal{O}(0; \{3^2, 4, 9, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2, 4, 6, 9, 36\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2, 3, 9, 12, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2^4, 36^2\})$ | 12 |
| 36 | $\mathcal{O}(0; \{3^3, 36^2\})$ | 96 |
| 36 | $\mathcal{O}(0; \{2, 4^2, 36^2\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2, 3, 6, 36^2\})$ | 48 |
| 37 | $\mathcal{O}(0; \{37^4\})$ | 45396 |
| 38 | $\mathcal{O}(0; \{2^2, 19^3\})$ | 306 |
| 38 | $\mathcal{O}(0; \{19^2, 38^2\})$ | 5526 |
| 39 | $\mathcal{O}(0; \{13^2, 39^2\})$ | 3192 |
| 40 | $\mathcal{O}(1; \{8^2\})$ | 6144 |
| 40 | $\mathcal{O}(0; \{2^2, 8, 10, 40\})$ | 16 |
| 40 | $\mathcal{O}(0; \{8, 20^2, 40\})$ | 192 |
| 40 | $\mathcal{O}(0; \{2^2, 5, 40^2\})$ | 48 |
| 40 | $\mathcal{O}(0; \{10^2, 40^2\})$ | 208 |
| 42 | $\mathcal{O}(1; \{6^2\})$ | 3456 |
| 42 | $\mathcal{O}(0; \{6, 14, 21^2\})$ | 60 |
| 42 | $\mathcal{O}(0; \{2, 3^2, 7, 42\})$ | 12 |
| 42 | $\mathcal{O}(0; \{2^2, 6, 7, 42\})$ | 12 |
| 42 | $\mathcal{O}(0; \{6, 14^2, 42\})$ | 60 |

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Table 6 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------------|---|
| 42 | $\mathcal{O}(0; \{7^2, 42^2\})$ | 372 |
| 44 | $\mathcal{O}(0; \{4, 11, 22, 44\})$ | 180 |
| 45 | $\mathcal{O}(0; \{5, 9^2, 45\})$ | 72 |
| 45 | $\mathcal{O}(0; \{5^2, 45^2\})$ | 312 |
| 45 | $\mathcal{O}(0; \{3, 15, 45^2\})$ | 288 |
| 48 | $\mathcal{O}(0; \{3, 12, 16^2\})$ | 32 |
| 48 | $\mathcal{O}(0; \{3, 8, 16, 48\})$ | 64 |
| 48 | $\mathcal{O}(0; \{2^3, 48^2\})$ | 16 |
| 48 | $\mathcal{O}(0; \{4^2, 48^2\})$ | 64 |
| 48 | $\mathcal{O}(0; \{3, 6, 48^2\})$ | 48 |
| 50 | $\mathcal{O}(0; \{2, 25^2, 50\})$ | 300 |
| 52 | $\mathcal{O}(0; \{4^2, 13^2\})$ | 24 |
| 54 | $\mathcal{O}(0; \{3^2, 54^2\})$ | 72 |
| 54 | $\mathcal{O}(0; \{2, 6, 54^2\})$ | 36 |
| 57 | $\mathcal{O}(0; \{3^2, 19^2\})$ | 36 |
| 60 | $\mathcal{O}(0; \{2, 4, 15, 60\})$ | 16 |
| 66 | $\mathcal{O}(0; \{2, 3, 11, 66\})$ | 20 |
| 70 | $\mathcal{O}(1; \{2^2\})$ | 4608 |
| 72 | $\mathcal{O}(0; \{2^2, 72^2\})$ | 24 |
| 73 | $\mathcal{O}(0; \{73^3\})$ | 5112 |
| 74 | $\mathcal{O}(0; \{2^2, 37^2\})$ | 36 |
| 74 | $\mathcal{O}(0; \{37, 74^2\})$ | 1260 |
| 75 | $\mathcal{O}(0; \{25, 75^2\})$ | 600 |
| 76 | $\mathcal{O}(0; \{19, 76^2\})$ | 612 |
| 78 | $\mathcal{O}(0; \{13, 78^2\})$ | 264 |
| 80 | $\mathcal{O}(0; \{16, 20, 80\})$ | 64 |
| 80 | $\mathcal{O}(0; \{10, 80^2\})$ | 96 |
| 81 | $\mathcal{O}(0; \{9, 81^2\})$ | 324 |
| 84 | $\mathcal{O}(0; \{12, 21, 28\})$ | 24 |
| 84 | $\mathcal{O}(0; \{12, 14, 84\})$ | 24 |
| 84 | $\mathcal{O}(0; \{7, 84^2\})$ | 120 |
| 90 | $\mathcal{O}(0; \{9, 10, 90\})$ | 24 |
| 90 | $\mathcal{O}(0; \{5, 90^2\})$ | 72 |
| 91 | $\mathcal{O}(0; \{7, 13, 91\})$ | 72 |
| 95 | $\mathcal{O}(0; \{5, 19, 95\})$ | 72 |
| 96 | $\mathcal{O}(0; \{4, 96^2\})$ | 64 |
| 100 | $\mathcal{O}(0; \{4, 25, 100\})$ | 40 |
| 108 | $\mathcal{O}(0; \{3, 108^2\})$ | 72 |
| 111 | $\mathcal{O}(0; \{3, 37, 111\})$ | 72 |
| 144 | $\mathcal{O}(0; \{2, 144^2\})$ | 48 |
| 146 | $\mathcal{O}(0; \{2, 73, 146\})$ | 72 |

Table 7: 37-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------|---|
| 1 | $\mathcal{O}(37; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(19; \emptyset)$ | 274877906943 |
| 2 | $\mathcal{O}(18; \{2^4\})$ | 68719476736 |
| 2 | $\mathcal{O}(17; \{2^8\})$ | 17179869184 |
| 2 | $\mathcal{O}(16; \{2^{12}\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^{16}\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{20}\})$ | 268435456 |
| 2 | $\mathcal{O}(13; \{2^{24}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{28}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{32}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{36}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{40}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{44}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{48}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{52}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{56}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{60}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{64}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{68}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{72}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{76}\})$ | 1 |
| 3 | $\mathcal{O}(13; \emptyset)$ | 2541865828328 |
| 3 | $\mathcal{O}(12; \{3^3\})$ | 564859072962 |
| 3 | $\mathcal{O}(11; \{3^6\})$ | 690383311398 |
| 3 | $\mathcal{O}(10; \{3^9\})$ | 592753348170 |
| 3 | $\mathcal{O}(9; \{3^{12}\})$ | 529216387974 |
| 3 | $\mathcal{O}(8; \{3^{15}\})$ | 470156286762 |
| 3 | $\mathcal{O}(7; \{3^{18}\})$ | 417945397158 |
| 3 | $\mathcal{O}(6; \{3^{21}\})$ | 371503831050 |
| 3 | $\mathcal{O}(5; \{3^{24}\})$ | 330225981894 |
| 3 | $\mathcal{O}(4; \{3^{27}\})$ | 293534166762 |
| 3 | $\mathcal{O}(3; \{3^{30}\})$ | 260919263718 |
| 3 | $\mathcal{O}(2; \{3^{33}\})$ | 231928233930 |
| 3 | $\mathcal{O}(1; \{3^{36}\})$ | 206158430214 |
| 3 | $\mathcal{O}(0; \{3^{39}\})$ | 183251937962 |
| 4 | $\mathcal{O}(10; \emptyset)$ | 1099510579200 |
| 4 | $\mathcal{O}(9; \{2^4\})$ | 68719214592 |
| 4 | $\mathcal{O}(9; \{2, 4^2\})$ | 137438953472 |
| 4 | $\mathcal{O}(8; \{2^8\})$ | 4294901760 |
| 4 | $\mathcal{O}(8; \{2^5, 4^2\})$ | 8589934592 |
| 4 | $\mathcal{O}(8; \{2^2, 4^4\})$ | 34359738368 |
| 4 | $\mathcal{O}(7; \{2^{12}\})$ | 268419072 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------|---|
| 4 | $O(7; \{2^9, 4^2\})$ | 536870912 |
| 4 | $O(7; \{2^6, 4^4\})$ | 2147483648 |
| 4 | $O(7; \{2^3, 4^6\})$ | 8589934592 |
| 4 | $O(7; \{4^8\})$ | 34359738368 |
| 4 | $O(6; \{2^{16}\})$ | 16773120 |
| 4 | $O(6; \{2^{13}, 4^2\})$ | 33554432 |
| 4 | $O(6; \{2^{10}, 4^4\})$ | 134217728 |
| 4 | $O(6; \{2^7, 4^6\})$ | 536870912 |
| 4 | $O(6; \{2^4, 4^8\})$ | 2147483648 |
| 4 | $O(6; \{2, 4^{10}\})$ | 8589934592 |
| 4 | $O(5; \{2^{20}\})$ | 1047552 |
| 4 | $O(5; \{2^{17}, 4^2\})$ | 2097152 |
| 4 | $O(5; \{2^{14}, 4^4\})$ | 8388608 |
| 4 | $O(5; \{2^{11}, 4^6\})$ | 33554432 |
| 4 | $O(5; \{2^8, 4^8\})$ | 134217728 |
| 4 | $O(5; \{2^5, 4^{10}\})$ | 536870912 |
| 4 | $O(5; \{2^2, 4^{12}\})$ | 2147483648 |
| 4 | $O(4; \{2^{24}\})$ | 65280 |
| 4 | $O(4; \{2^{21}, 4^2\})$ | 131072 |
| 4 | $O(4; \{2^{18}, 4^4\})$ | 524288 |
| 4 | $O(4; \{2^{15}, 4^6\})$ | 2097152 |
| 4 | $O(4; \{2^{12}, 4^8\})$ | 8388608 |
| 4 | $O(4; \{2^9, 4^{10}\})$ | 33554432 |
| 4 | $O(4; \{2^6, 4^{12}\})$ | 134217728 |
| 4 | $O(4; \{2^3, 4^{14}\})$ | 536870912 |
| 4 | $O(4; \{4^{16}\})$ | 2147483648 |
| 4 | $O(3; \{2^{28}\})$ | 4032 |
| 4 | $O(3; \{2^{25}, 4^2\})$ | 8192 |
| 4 | $O(3; \{2^{22}, 4^4\})$ | 32768 |
| 4 | $O(3; \{2^{19}, 4^6\})$ | 131072 |
| 4 | $O(3; \{2^{16}, 4^8\})$ | 524288 |
| 4 | $O(3; \{2^{13}, 4^{10}\})$ | 2097152 |
| 4 | $O(3; \{2^{10}, 4^{12}\})$ | 8388608 |
| 4 | $O(3; \{2^7, 4^{14}\})$ | 33554432 |
| 4 | $O(3; \{2^4, 4^{16}\})$ | 134217728 |
| 4 | $O(3; \{2, 4^{18}\})$ | 536870912 |
| 4 | $O(2; \{2^{32}\})$ | 240 |
| 4 | $O(2; \{2^{29}, 4^2\})$ | 512 |
| 4 | $O(2; \{2^{26}, 4^4\})$ | 2048 |
| 4 | $O(2; \{2^{23}, 4^6\})$ | 8192 |
| 4 | $O(2; \{2^{20}, 4^8\})$ | 32768 |
| 4 | $O(2; \{2^{17}, 4^{10}\})$ | 131072 |
| 4 | $O(2; \{2^{14}, 4^{12}\})$ | 524288 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------|---|
| 4 | $O(2; \{2^{11}, 4^{14}\})$ | 2097152 |
| 4 | $O(2; \{2^8, 4^{16}\})$ | 8388608 |
| 4 | $O(2; \{2^5, 4^{18}\})$ | 33554432 |
| 4 | $O(2; \{2^2, 4^{20}\})$ | 134217728 |
| 4 | $O(1; \{2^{36}\})$ | 12 |
| 4 | $O(1; \{2^{33}, 4^2\})$ | 32 |
| 4 | $O(1; \{2^{30}, 4^4\})$ | 128 |
| 4 | $O(1; \{2^{27}, 4^6\})$ | 512 |
| 4 | $O(1; \{2^{24}, 4^8\})$ | 2048 |
| 4 | $O(1; \{2^{21}, 4^{10}\})$ | 8192 |
| 4 | $O(1; \{2^{18}, 4^{12}\})$ | 32768 |
| 4 | $O(1; \{2^{15}, 4^{14}\})$ | 131072 |
| 4 | $O(1; \{2^{12}, 4^{16}\})$ | 524288 |
| 4 | $O(1; \{2^9, 4^{18}\})$ | 2097152 |
| 4 | $O(1; \{2^6, 4^{20}\})$ | 8388608 |
| 4 | $O(1; \{2^3, 4^{22}\})$ | 33554432 |
| 4 | $O(1; \{4^{24}\})$ | 134217728 |
| 4 | $O(0; \{2^{37}, 4^2\})$ | 2 |
| 4 | $O(0; \{2^{34}, 4^4\})$ | 8 |
| 4 | $O(0; \{2^{31}, 4^6\})$ | 32 |
| 4 | $O(0; \{2^{28}, 4^8\})$ | 128 |
| 4 | $O(0; \{2^{25}, 4^{10}\})$ | 512 |
| 4 | $O(0; \{2^{22}, 4^{12}\})$ | 2048 |
| 4 | $O(0; \{2^{19}, 4^{14}\})$ | 8192 |
| 4 | $O(0; \{2^{16}, 4^{16}\})$ | 32768 |
| 4 | $O(0; \{2^{13}, 4^{18}\})$ | 131072 |
| 4 | $O(0; \{2^{10}, 4^{20}\})$ | 524288 |
| 4 | $O(0; \{2^7, 4^{22}\})$ | 2097152 |
| 4 | $O(0; \{2^4, 4^{24}\})$ | 8388608 |
| 4 | $O(0; \{2, 4^{26}\})$ | 33554432 |
| 5 | $O(7; \{5^3\})$ | 73242187500 |
| 5 | $O(5; \{5^8\})$ | 128007812500 |
| 5 | $O(3; \{5^{13}\})$ | 209715187500 |
| 5 | $O(1; \{5^{18}\})$ | 343597383700 |
| 6 | $O(7; \emptyset)$ | 78359364744 |
| 6 | $O(6; \{2^4\})$ | 2176778240 |
| 6 | $O(6; \{3^3\})$ | 4352501790 |
| 6 | $O(6; \{2, 3, 6\})$ | 4353564672 |
| 6 | $O(5; \{2^8\})$ | 60465152 |
| 6 | $O(5; \{2^4, 3^3\})$ | 120932352 |
| 6 | $O(5; \{3^6\})$ | 1328956794 |
| 6 | $O(5; \{2^3, 3, 6\})$ | 120932352 |
| 6 | $O(5; \{2, 3^4, 6\})$ | 604661760 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(5; \{2^2, 3^2, 6^2\})$ | 362797056 |
| 6 | $\mathcal{O}(5; \{2^3, 6^3\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{3, 6^4\})$ | 604661760 |
| 6 | $\mathcal{O}(4; \{2^{12}\})$ | 1679360 |
| 6 | $\mathcal{O}(4; \{2^8, 3^3\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^4, 3^6\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{3^9\})$ | 284419350 |
| 6 | $\mathcal{O}(4; \{2^9, 3, 6\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^5, 3^4, 6\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2, 3^7, 6\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2^6, 3^2, 6^2\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2^2, 3^5, 6^2\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^7, 6^3\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^3, 3^3, 6^3\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2^4, 3, 6^4\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{3^4, 6^4\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2, 3^2, 6^5\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^2, 6^6\})$ | 36951552 |
| 6 | $\mathcal{O}(3; \{2^{16}\})$ | 46592 |
| 6 | $\mathcal{O}(3; \{2^{12}, 3^3\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^8, 3^6\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^4, 3^9\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{3^{12}\})$ | 62736282 |
| 6 | $\mathcal{O}(3; \{2^{13}, 3, 6\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^9, 3^4, 6\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^5, 3^7, 6\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2, 3^{10}, 6\})$ | 31819392 |
| 6 | $\mathcal{O}(3; \{2^{10}, 3^2, 6^2\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^6, 3^5, 6^2\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^2, 3^8, 6^2\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^{11}, 6^3\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^7, 3^3, 6^3\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^3, 3^6, 6^3\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^8, 3, 6^4\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^4, 3^4, 6^4\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{3^7, 6^4\})$ | 31819392 |
| 6 | $\mathcal{O}(3; \{2^5, 3^2, 6^5\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2, 3^5, 6^5\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^6, 6^6\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^2, 3^3, 6^6\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^3, 3, 6^7\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{3^2, 6^8\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2, 6^9\})$ | 7931520 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------|---|
| 6 | $O(2; \{2^{20}\})$ | 1280 |
| 6 | $O(2; \{2^{16}, 3^3\})$ | 2592 |
| 6 | $O(2; \{2^{12}, 3^6\})$ | 28512 |
| 6 | $O(2; \{2^8, 3^9\})$ | 220320 |
| 6 | $O(2; \{2^4, 3^{12}\})$ | 1770336 |
| 6 | $O(2; \{3^{15}\})$ | 13270230 |
| 6 | $O(2; \{2^{17}, 3, 6\})$ | 2592 |
| 6 | $O(2; \{2^{13}, 3^4, 6\})$ | 12960 |
| 6 | $O(2; \{2^9, 3^7, 6\})$ | 111456 |
| 6 | $O(2; \{2^5, 3^{10}, 6\})$ | 883872 |
| 6 | $O(2; \{2, 3^{13}, 6\})$ | 7078752 |
| 6 | $O(2; \{2^{14}, 3^2, 6^2\})$ | 7776 |
| 6 | $O(2; \{2^{10}, 3^5, 6^2\})$ | 54432 |
| 6 | $O(2; \{2^6, 3^8, 6^2\})$ | 443232 |
| 6 | $O(2; \{2^2, 3^{11}, 6^2\})$ | 3538080 |
| 6 | $O(2; \{2^{15}, 6^3\})$ | 2592 |
| 6 | $O(2; \{2^{11}, 3^3, 6^3\})$ | 28512 |
| 6 | $O(2; \{2^7, 3^6, 6^3\})$ | 220320 |
| 6 | $O(2; \{2^3, 3^9, 6^3\})$ | 1770336 |
| 6 | $O(2; \{2^{12}, 3, 6^4\})$ | 12960 |
| 6 | $O(2; \{2^8, 3^4, 6^4\})$ | 111456 |
| 6 | $O(2; \{2^4, 3^7, 6^4\})$ | 883872 |
| 6 | $O(2; \{3^{10}, 6^4\})$ | 7078752 |
| 6 | $O(2; \{2^9, 3^2, 6^5\})$ | 54432 |
| 6 | $O(2; \{2^5, 3^5, 6^5\})$ | 443232 |
| 6 | $O(2; \{2, 3^8, 6^5\})$ | 3538080 |
| 6 | $O(2; \{2^{10}, 6^6\})$ | 28512 |
| 6 | $O(2; \{2^6, 3^3, 6^6\})$ | 220320 |
| 6 | $O(2; \{2^2, 3^6, 6^6\})$ | 1770336 |
| 6 | $O(2; \{2^7, 3, 6^7\})$ | 111456 |
| 6 | $O(2; \{2^3, 3^4, 6^7\})$ | 883872 |
| 6 | $O(2; \{2^4, 3^2, 6^8\})$ | 443232 |
| 6 | $O(2; \{3^5, 6^8\})$ | 3538080 |
| 6 | $O(2; \{2^5, 6^9\})$ | 220320 |
| 6 | $O(2; \{2, 3^3, 6^9\})$ | 1770336 |
| 6 | $O(2; \{2^2, 3, 6^{10}\})$ | 883872 |
| 6 | $O(2; \{6^{12}\})$ | 1770336 |
| 6 | $O(1; \{2^{24}\})$ | 32 |
| 6 | $O(1; \{2^{20}, 3^3\})$ | 72 |
| 6 | $O(1; \{2^{16}, 3^6\})$ | 792 |
| 6 | $O(1; \{2^{12}, 3^9\})$ | 6120 |
| 6 | $O(1; \{2^8, 3^{12}\})$ | 49176 |
| 6 | $O(1; \{2^4, 3^{15}\})$ | 393192 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(1; \{3^{18}\})$ | 2359314 |
| 6 | $\mathcal{O}(1; \{2^{21}, 3, 6\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{17}, 3^4, 6\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^7, 6\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^9, 3^{10}, 6\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^5, 3^{13}, 6\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2, 3^{16}, 6\})$ | 1572840 |
| 6 | $\mathcal{O}(1; \{2^{18}, 3^2, 6^2\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3^5, 6^2\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^8, 6^2\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^6, 3^{11}, 6^2\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{14}, 6^2\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^{19}, 6^3\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{15}, 3^3, 6^3\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^6, 6^3\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^7, 3^9, 6^3\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^3, 3^{12}, 6^3\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3, 6^4\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^4, 6^4\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^8, 3^7, 6^4\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^4, 3^{10}, 6^4\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{3^{13}, 6^4\})$ | 1572840 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^2, 6^5\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^9, 3^5, 6^5\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^5, 3^8, 6^5\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2, 3^{11}, 6^5\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^{14}, 6^6\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^3, 6^6\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^6, 3^6, 6^6\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^2, 3^9, 6^6\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3, 6^7\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^7, 3^4, 6^7\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^3, 3^7, 6^7\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^8, 3^2, 6^8\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^4, 3^5, 6^8\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{3^8, 6^8\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^9, 6^9\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^5, 3^3, 6^9\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2, 3^6, 6^9\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^6, 3, 6^{10}\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^2, 3^4, 6^{10}\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^3, 3^2, 6^{11}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^4, 6^{12}\})$ | 49176 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(1; \{3^3, 6^{12}\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2, 3, 6^{13}\})$ | 196632 |
| 6 | $\mathcal{O}(0; \{2^{24}, 3^3\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^9\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^{12}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{15}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{18}\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{25}, 3, 6\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{21}, 3^4, 6\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^7, 6\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^{10}, 6\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^9, 3^{13}, 6\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{16}, 6\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2, 3^{19}, 6\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3^2, 6^2\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^5, 6^2\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^8, 6^2\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{11}, 6^2\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{14}, 6^2\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{17}, 6^2\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{23}, 6^3\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^3, 6^3\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^6, 6^3\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^9, 6^3\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{12}, 6^3\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{15}, 6^3\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3, 6^4\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^4, 6^4\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^7, 6^4\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{10}, 6^4\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{13}, 6^4\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{3^{16}, 6^4\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^2, 6^5\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^5, 6^5\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^9, 3^8, 6^5\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{11}, 6^5\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2, 3^{14}, 6^5\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{18}, 6^6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^3, 6^6\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^6, 6^6\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^6, 3^9, 6^6\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{12}, 6^6\})$ | 87382 |

Continued on next page

Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(0; \{2^{15}, 3, 6^7\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^4, 6^7\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^7, 3^7, 6^7\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{10}, 6^7\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^2, 6^8\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^8, 3^5, 6^8\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^4, 3^8, 6^8\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{3^{11}, 6^8\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{13}, 6^9\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^9, 3^3, 6^9\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^5, 3^6, 6^9\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2, 3^9, 6^9\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3, 6^{10}\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^6, 3^4, 6^{10}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^2, 3^7, 6^{10}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^7, 3^2, 6^{11}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^3, 3^5, 6^{11}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^8, 6^{12}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^4, 3^3, 6^{12}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{3^6, 6^{12}\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^5, 3, 6^{13}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2, 3^4, 6^{13}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^2, 3^2, 6^{14}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^3, 6^{15}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{3, 6^{16}\})$ | 43690 |
| 7 | $\mathcal{O}(4; \{7^5\})$ | 6398929110 |
| 7 | $\mathcal{O}(1; \{7^{12}\})$ | 15237476394 |
| 8 | $\mathcal{O}(5; \{2^2\})$ | 1072693248 |
| 8 | $\mathcal{O}(4; \{2^6\})$ | 16711680 |
| 8 | $\mathcal{O}(4; \{2^3, 4^2\})$ | 33423360 |
| 8 | $\mathcal{O}(4; \{4^4\})$ | 133693440 |
| 8 | $\mathcal{O}(4; \{2, 4, 8^2\})$ | 134217728 |
| 8 | $\mathcal{O}(3; \{2^{10}\})$ | 258048 |
| 8 | $\mathcal{O}(3; \{2^7, 4^2\})$ | 516096 |
| 8 | $\mathcal{O}(3; \{2^4, 4^4\})$ | 2064384 |
| 8 | $\mathcal{O}(3; \{2, 4^6\})$ | 8257536 |
| 8 | $\mathcal{O}(3; \{2^5, 4, 8^2\})$ | 2097152 |
| 8 | $\mathcal{O}(3; \{2^2, 4^3, 8^2\})$ | 8388608 |
| 8 | $\mathcal{O}(3; \{2^3, 8^4\})$ | 16777216 |
| 8 | $\mathcal{O}(3; \{4^2, 8^4\})$ | 67108864 |
| 8 | $\mathcal{O}(2; \{2^{14}\})$ | 3840 |
| 8 | $\mathcal{O}(2; \{2^{11}, 4^2\})$ | 7680 |
| 8 | $\mathcal{O}(2; \{2^8, 4^4\})$ | 30720 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(2; \{2^5, 4^6\})$ | 122880 |
| 8 | $\mathcal{O}(2; \{2^2, 4^8\})$ | 491520 |
| 8 | $\mathcal{O}(2; \{2^9, 4, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(2; \{2^6, 4^3, 8^2\})$ | 131072 |
| 8 | $\mathcal{O}(2; \{2^3, 4^5, 8^2\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{4^7, 8^2\})$ | 2097152 |
| 8 | $\mathcal{O}(2; \{2^7, 8^4\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2^4, 4^2, 8^4\})$ | 1048576 |
| 8 | $\mathcal{O}(2; \{2, 4^4, 8^4\})$ | 4194304 |
| 8 | $\mathcal{O}(2; \{2^2, 4, 8^6\})$ | 8388608 |
| 8 | $\mathcal{O}(2; \{8^8\})$ | 67108864 |
| 8 | $\mathcal{O}(1; \{2^{18}\})$ | 48 |
| 8 | $\mathcal{O}(1; \{2^{15}, 4^2\})$ | 96 |
| 8 | $\mathcal{O}(1; \{2^{12}, 4^4\})$ | 384 |
| 8 | $\mathcal{O}(1; \{2^9, 4^6\})$ | 1536 |
| 8 | $\mathcal{O}(1; \{2^6, 4^8\})$ | 6144 |
| 8 | $\mathcal{O}(1; \{2^3, 4^{10}\})$ | 24576 |
| 8 | $\mathcal{O}(1; \{4^{12}\})$ | 98304 |
| 8 | $\mathcal{O}(1; \{2^{13}, 4, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(1; \{2^{10}, 4^3, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(1; \{2^7, 4^5, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^4, 4^7, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2, 4^9, 8^2\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^{11}, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^8, 4^2, 8^4\})$ | 16384 |
| 8 | $\mathcal{O}(1; \{2^5, 4^4, 8^4\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^2, 4^6, 8^4\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{2^6, 4, 8^6\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^3, 4^3, 8^6\})$ | 524288 |
| 8 | $\mathcal{O}(1; \{4^5, 8^6\})$ | 2097152 |
| 8 | $\mathcal{O}(1; \{2^4, 8^8\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{2, 4^2, 8^8\})$ | 4194304 |
| 8 | $\mathcal{O}(0; \{2^{17}, 4, 8^2\})$ | 8 |
| 8 | $\mathcal{O}(0; \{2^{14}, 4^3, 8^2\})$ | 32 |
| 8 | $\mathcal{O}(0; \{2^{11}, 4^5, 8^2\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^8, 4^7, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^5, 4^9, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^2, 4^{11}, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^{15}, 8^4\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^{12}, 4^2, 8^4\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^9, 4^4, 8^4\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^6, 4^6, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^3, 4^8, 8^4\})$ | 16384 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 8 | $\mathcal{O}(0; \{4^{10}, 8^4\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{2^{10}, 4, 8^6\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^7, 4^3, 8^6\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^4, 4^5, 8^6\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2, 4^7, 8^6\})$ | 131072 |
| 8 | $\mathcal{O}(0; \{2^8, 8^8\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^5, 4^2, 8^8\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{2^2, 4^4, 8^8\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{2^3, 4, 8^{10}\})$ | 524288 |
| 8 | $\mathcal{O}(0; \{4^3, 8^{10}\})$ | 2097152 |
| 8 | $\mathcal{O}(0; \{2, 8^{12}\})$ | 4194304 |
| 9 | $\mathcal{O}(5; \emptyset)$ | 3486725352 |
| 9 | $\mathcal{O}(4; \{3^3\})$ | 86080320 |
| 9 | $\mathcal{O}(3; \{3^6\})$ | 11675664 |
| 9 | $\mathcal{O}(3; \{3^2, 9^3\})$ | 38263752 |
| 9 | $\mathcal{O}(2; \{3^9\})$ | 1101600 |
| 9 | $\mathcal{O}(2; \{3^5, 9^3\})$ | 3779136 |
| 9 | $\mathcal{O}(2; \{3, 9^6\})$ | 70150212 |
| 9 | $\mathcal{O}(1; \{3^{12}\})$ | 98352 |
| 9 | $\mathcal{O}(1; \{3^8, 9^3\})$ | 373248 |
| 9 | $\mathcal{O}(1; \{3^4, 9^6\})$ | 6928416 |
| 9 | $\mathcal{O}(1; \{9^9\})$ | 90344970 |
| 9 | $\mathcal{O}(0; \{3^{11}, 9^3\})$ | 36864 |
| 9 | $\mathcal{O}(0; \{3^7, 9^6\})$ | 684288 |
| 9 | $\mathcal{O}(0; \{3^3, 9^9\})$ | 8922960 |
| 10 | $\mathcal{O}(3; \{5^4\})$ | 51187500 |
| 10 | $\mathcal{O}(3; \{2^3, 5, 10\})$ | 4000000 |
| 10 | $\mathcal{O}(3; \{2, 10^3\})$ | 12000000 |
| 10 | $\mathcal{O}(2; \{2^4, 5^4\})$ | 520000 |
| 10 | $\mathcal{O}(2; \{2^7, 5, 10\})$ | 40000 |
| 10 | $\mathcal{O}(2; \{2^2, 5^3, 10^2\})$ | 2040000 |
| 10 | $\mathcal{O}(2; \{2^5, 10^3\})$ | 120000 |
| 10 | $\mathcal{O}(2; \{5^2, 10^4\})$ | 8200000 |
| 10 | $\mathcal{O}(1; \{2^8, 5^4\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{5^9\})$ | 3932100 |
| 10 | $\mathcal{O}(1; \{2^{11}, 5, 10\})$ | 400 |
| 10 | $\mathcal{O}(1; \{2^3, 5^6, 10\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^6, 5^3, 10^2\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2^9, 10^3\})$ | 1200 |
| 10 | $\mathcal{O}(1; \{2, 5^5, 10^3\})$ | 1310800 |
| 10 | $\mathcal{O}(1; \{2^4, 5^2, 10^4\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^2, 5, 10^6\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{10^8\})$ | 1310800 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 10 | $\mathcal{O}(0; \{2^{12}, 5^4\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^4, 5^9\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^{15}, 5, 10\})$ | 4 |
| 10 | $\mathcal{O}(0; \{2^7, 5^6, 10\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^{10}, 5^3, 10^2\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2^2, 5^8, 10^2\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^{13}, 10^3\})$ | 12 |
| 10 | $\mathcal{O}(0; \{2^5, 5^5, 10^3\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^8, 5^2, 10^4\})$ | 820 |
| 10 | $\mathcal{O}(0; \{5^7, 10^4\})$ | 838860 |
| 10 | $\mathcal{O}(0; \{2^3, 5^4, 10^5\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^6, 5, 10^6\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2, 5^3, 10^7\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^4, 10^8\})$ | 13108 |
| 11 | $\mathcal{O}(2; \{11^5\})$ | 133086690 |
| 12 | $\mathcal{O}(4; \emptyset)$ | 428236800 |
| 12 | $\mathcal{O}(3; \{2^4\})$ | 2935296 |
| 12 | $\mathcal{O}(3; \{3^3\})$ | 5878656 |
| 12 | $\mathcal{O}(3; \{2, 4^2\})$ | 5963776 |
| 12 | $\mathcal{O}(3; \{2, 3, 6\})$ | 5878656 |
| 12 | $\mathcal{O}(2; \{2^8\})$ | 19200 |
| 12 | $\mathcal{O}(2; \{2^4, 3^3\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{3^6\})$ | 427680 |
| 12 | $\mathcal{O}(2; \{2^5, 4^2\})$ | 40960 |
| 12 | $\mathcal{O}(2; \{2, 3^3, 4^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^2, 4^4\})$ | 163840 |
| 12 | $\mathcal{O}(2; \{2^5, 3, 6\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{2, 3^4, 6\})$ | 194400 |
| 12 | $\mathcal{O}(2; \{2^2, 3, 4^2, 6\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^2, 3^2, 6^2\})$ | 116640 |
| 12 | $\mathcal{O}(2; \{2^3, 6^3\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{4^2, 6^3\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3, 6^4\})$ | 194400 |
| 12 | $\mathcal{O}(2; \{2^2, 3^2, 4, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^3, 4, 6, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{4^3, 6, 12\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{3, 4, 6^2, 12\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^3, 3, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3, 4^2, 12^2\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{3^2, 6, 12^2\})$ | 414720 |
| 12 | $\mathcal{O}(2; \{2, 6^2, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2, 4, 12^3\})$ | 331776 |
| 12 | $\mathcal{O}(1; \{2^{12}\})$ | 96 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2^8, 3^3\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^4, 3^6\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{3^9\})$ | 18360 |
| 12 | $\mathcal{O}(1; \{2^9, 4^2\})$ | 256 |
| 12 | $\mathcal{O}(1; \{2^5, 3^3, 4^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^6, 4^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^6, 4^4\})$ | 1024 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 4^4\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^3, 4^6\})$ | 4096 |
| 12 | $\mathcal{O}(1; \{4^8\})$ | 16384 |
| 12 | $\mathcal{O}(1; \{2^9, 3, 6\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^5, 3^4, 6\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{2, 3^7, 6\})$ | 9288 |
| 12 | $\mathcal{O}(1; \{2^6, 3, 4^2, 6\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^4, 4^2, 6\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4^4, 6\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3, 4^6, 6\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^6, 3^2, 6^2\})$ | 648 |
| 12 | $\mathcal{O}(1; \{2^2, 3^5, 6^2\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 4^2, 6^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^2, 4^4, 6^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^7, 6^3\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^3, 3^3, 6^3\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{2^4, 4^2, 6^3\})$ | 576 |
| 12 | $\mathcal{O}(1; \{3^3, 4^2, 6^3\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2, 4^4, 6^3\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 6^4\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{3^4, 6^4\})$ | 9288 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^2, 6^4\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 6^5\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2^2, 6^6\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{2^6, 3^2, 4, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^5, 4, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 4^3, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^2, 4^5, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^7, 4, 6, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^3, 3^3, 4, 6, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^4, 4^3, 6, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^3, 4^3, 6, 12\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2, 4^5, 6, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 4, 6^2, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^4, 4, 6^2, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^3, 6^2, 12\})$ | 6912 |

Continued on next page

Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2, 3^2, 4, 6^3, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 4, 6^4, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^7, 3, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^3, 3^4, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 4^2, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^4, 4^2, 12^2\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^4, 12^2\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 6, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3^5, 6, 12^2\})$ | 24768 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^2, 6, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^5, 6^2, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 6^2, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^2, 4^2, 6^2, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 6^3, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{6^5, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^5, 4, 12^3\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4, 12^3\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^2, 4^3, 12^3\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4, 6, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{4, 6^3, 12^3\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^3, 6, 12^4\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{4^2, 6, 12^4\})$ | 46080 |
| 12 | $\mathcal{O}(1; \{3, 6^2, 12^4\})$ | 48384 |
| 12 | $\mathcal{O}(1; \{3, 4, 12^5\})$ | 101376 |
| 12 | $\mathcal{O}(1; \{2, 12^6\})$ | 101376 |
| 12 | $\mathcal{O}(0; \{2^9, 3^3, 4^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^6, 4^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^9, 4^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 4^4\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 4^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^3, 4^8\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^{10}, 3, 4^2, 6\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^4, 4^2, 6\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^7, 4^2, 6\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4^4, 6\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4^4, 6\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^6, 6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^4, 4^6, 6\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^8, 6\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 4^2, 6^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 4^2, 6^2\})$ | 84 |

Continued on next page

Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^4, 6^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^5, 4^4, 6^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^6, 6^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^8, 4^2, 6^3\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4^2, 6^3\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^6, 4^2, 6^3\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^5, 4^4, 6^3\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^4, 6^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 4^6, 6^3\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^2, 6^4\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^2, 6^4\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^4, 6^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^2, 6^5\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^3, 4^2, 6^6\})$ | 44 |
| 12 | $\mathcal{O}(0; \{4^4, 6^6\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3, 4^2, 6^7\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^{10}, 3^2, 4, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^5, 4, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^8, 4, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 4^3, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 4^3, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^5, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^5, 4^5, 12\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^7, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^{11}, 4, 6, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^7, 3^3, 4, 6, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^6, 4, 6, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^8, 4^3, 6, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4^3, 6, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^6, 4^3, 6, 12\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^5, 4^5, 6, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^5, 6, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 4^7, 6, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 4, 6^2, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 4, 6^2, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^7, 4, 6^2, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^3, 6^2, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^3, 6^2, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^5, 6^2, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4, 6^3, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4, 6^3, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^3, 6^3, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^6, 4, 6^4, 12\})$ | 20 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4, 6^4, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 4^3, 6^4, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{4^5, 6^4, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4, 6^5, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3, 4^3, 6^5, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^2, 4, 6^6, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 4, 6^7, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^{11}, 3, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^7, 3^4, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^3, 3^7, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 4^2, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 4^2, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^7, 4^2, 12^2\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^4, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^4, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^8, 3^2, 6, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^4, 3^5, 6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3^8, 6, 12^2\})$ | 1364 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^2, 6, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^2, 6, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^4, 6, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^9, 6^2, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 6^2, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 6^2, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^6, 4^2, 6^2, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^2, 6^2, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 4^4, 6^2, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{4^6, 6^2, 12^2\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 6^3, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 6^3, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^2, 6^3, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3, 4^4, 6^3, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 6^4, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3^2, 4^2, 6^4, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^4, 6^5, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^3, 6^5, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2, 4^2, 6^5, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3, 6^6, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^9, 4, 12^3\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^6, 4^3, 12^3\})$ | 64 |

Continued on next page

Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^3, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^3, 4^5, 12^3\})$ | 256 |
| 12 | $\mathcal{O}(0; \{4^7, 12^3\})$ | 1024 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4, 6, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4, 6, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^3, 6, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3, 4^5, 6, 12^3\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4, 6^2, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^2, 4^3, 6^2, 12^3\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^4, 4, 6^3, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^3, 4, 6^3, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 4^3, 6^3, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3, 4, 6^4, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^2, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3^2, 4^4, 12^4\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2^7, 6, 12^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 6, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^4, 4^2, 6, 12^4\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3^3, 4^2, 6, 12^4\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2, 4^4, 6, 12^4\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 6^2, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^4, 6^2, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^2, 6^2, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 6^3, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^2, 6^4, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4, 12^5\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3^4, 4, 12^5\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^3, 12^5\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4, 6, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^2, 4, 6^2, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^5, 12^6\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 12^6\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2^2, 4^2, 12^6\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 6, 12^6\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{6^3, 12^6\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{4, 6, 12^7\})$ | 11008 |
| 12 | $\mathcal{O}(0; \{3, 12^8\})$ | 21760 |
| 13 | $\mathcal{O}(1; \{13^6\})$ | 38817948 |
| 14 | $\mathcal{O}(2; \{2, 7^2, 14\})$ | 1152480 |
| 14 | $\mathcal{O}(1; \{7^6\})$ | 979902 |
| 14 | $\mathcal{O}(1; \{2^5, 7^2, 14\})$ | 5880 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 14 | $\mathcal{O}(1; \{2^3, 7, 14^3\})$ | 36456 |
| 14 | $\mathcal{O}(1; \{2, 14^5\})$ | 217560 |
| 14 | $\mathcal{O}(0; \{2^4, 7^6\})$ | 6666 |
| 14 | $\mathcal{O}(0; \{2^9, 7^2, 14\})$ | 30 |
| 14 | $\mathcal{O}(0; \{2^2, 7^5, 14^2\})$ | 39990 |
| 14 | $\mathcal{O}(0; \{2^7, 7, 14^3\})$ | 186 |
| 14 | $\mathcal{O}(0; \{7^4, 14^4\})$ | 239946 |
| 14 | $\mathcal{O}(0; \{2^5, 14^5\})$ | 1110 |
| 15 | $\mathcal{O}(2; \{15^3\})$ | 1215000 |
| 15 | $\mathcal{O}(1; \{5^6\})$ | 164000 |
| 15 | $\mathcal{O}(1; \{3, 5^4, 15\})$ | 91800 |
| 15 | $\mathcal{O}(1; \{3^2, 5^2, 15^2\})$ | 70200 |
| 15 | $\mathcal{O}(1; \{3^3, 15^3\})$ | 59400 |
| 15 | $\mathcal{O}(0; \{3^3, 5^6\})$ | 1640 |
| 15 | $\mathcal{O}(0; \{3^4, 5^4, 15\})$ | 2040 |
| 15 | $\mathcal{O}(0; \{3^5, 5^2, 15^2\})$ | 2184 |
| 15 | $\mathcal{O}(0; \{3^6, 15^3\})$ | 2040 |
| 15 | $\mathcal{O}(0; \{5^5, 15^3\})$ | 26216 |
| 15 | $\mathcal{O}(0; \{3, 5^3, 15^4\})$ | 32760 |
| 15 | $\mathcal{O}(0; \{3^2, 5, 15^5\})$ | 34440 |
| 16 | $\mathcal{O}(2; \{2^2, 4^2\})$ | 122880 |
| 16 | $\mathcal{O}(2; \{4, 8^2\})$ | 491520 |
| 16 | $\mathcal{O}(1; \{2^6, 4^2\})$ | 384 |
| 16 | $\mathcal{O}(1; \{2^3, 4^4\})$ | 1536 |
| 16 | $\mathcal{O}(1; \{4^6\})$ | 6144 |
| 16 | $\mathcal{O}(1; \{2^4, 4, 8^2\})$ | 1536 |
| 16 | $\mathcal{O}(1; \{2, 4^3, 8^2\})$ | 6144 |
| 16 | $\mathcal{O}(1; \{2^2, 8^4\})$ | 12288 |
| 16 | $\mathcal{O}(1; \{2^2, 4, 8, 16^2\})$ | 16384 |
| 16 | $\mathcal{O}(1; \{8^3, 16^2\})$ | 131072 |
| 16 | $\mathcal{O}(1; \{4, 16^4\})$ | 262144 |
| 16 | $\mathcal{O}(0; \{2^6, 4, 8, 16^2\})$ | 64 |
| 16 | $\mathcal{O}(0; \{2^3, 4^3, 8, 16^2\})$ | 256 |
| 16 | $\mathcal{O}(0; \{4^5, 8, 16^2\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{2^4, 8^3, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{2, 4^2, 8^3, 16^2\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{2^4, 4, 16^4\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{2, 4^3, 16^4\})$ | 4096 |
| 16 | $\mathcal{O}(0; \{2^2, 8^2, 16^4\})$ | 8192 |
| 16 | $\mathcal{O}(0; \{8, 16^6\})$ | 131072 |
| 18 | $\mathcal{O}(3; \emptyset)$ | 33434856 |
| 18 | $\mathcal{O}(2; \{2^4\})$ | 103680 |
| 18 | $\mathcal{O}(2; \{3^3\})$ | 194400 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 18 | $\mathcal{O}(2; \{2, 3, 6\})$ | 207360 |
| 18 | $\mathcal{O}(1; \{2^8\})$ | 288 |
| 18 | $\mathcal{O}(1; \{2^4, 3^3\})$ | 576 |
| 18 | $\mathcal{O}(1; \{3^6\})$ | 4752 |
| 18 | $\mathcal{O}(1; \{2^5, 3, 6\})$ | 576 |
| 18 | $\mathcal{O}(1; \{2, 3^4, 6\})$ | 2880 |
| 18 | $\mathcal{O}(1; \{2^2, 3^2, 6^2\})$ | 1728 |
| 18 | $\mathcal{O}(1; \{2^3, 6^3\})$ | 576 |
| 18 | $\mathcal{O}(1; \{3, 6^4\})$ | 2880 |
| 18 | $\mathcal{O}(1; \{3^2, 9^3\})$ | 17496 |
| 18 | $\mathcal{O}(1; \{2, 6, 9^3\})$ | 11664 |
| 18 | $\mathcal{O}(1; \{2^3, 3, 9, 18\})$ | 3888 |
| 18 | $\mathcal{O}(1; \{3^2, 6, 9, 18\})$ | 15552 |
| 18 | $\mathcal{O}(1; \{2, 6^2, 9, 18\})$ | 7776 |
| 18 | $\mathcal{O}(1; \{2, 3, 18^3\})$ | 11664 |
| 18 | $\mathcal{O}(0; \{2^4, 3^2, 9^3\})$ | 72 |
| 18 | $\mathcal{O}(0; \{2^5, 6, 9^3\})$ | 36 |
| 18 | $\mathcal{O}(0; \{2, 3^3, 6, 9^3\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 6^2, 9^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{6^4, 9^3\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2^7, 3, 9, 18\})$ | 12 |
| 18 | $\mathcal{O}(0; \{2^3, 3^4, 9, 18\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^4, 3^2, 6, 9, 18\})$ | 48 |
| 18 | $\mathcal{O}(0; \{3^5, 6, 9, 18\})$ | 384 |
| 18 | $\mathcal{O}(0; \{2^5, 6^2, 9, 18\})$ | 24 |
| 18 | $\mathcal{O}(0; \{2, 3^3, 6^2, 9, 18\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 6^3, 9, 18\})$ | 96 |
| 18 | $\mathcal{O}(0; \{6^5, 9, 18\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^3, 9^4, 18\})$ | 810 |
| 18 | $\mathcal{O}(0; \{3, 6, 9^4, 18\})$ | 3240 |
| 18 | $\mathcal{O}(0; \{2^2, 3^2, 9^2, 18^2\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^3, 6, 9^2, 18^2\})$ | 324 |
| 18 | $\mathcal{O}(0; \{3, 6^2, 9^2, 18^2\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2^5, 3, 18^3\})$ | 36 |
| 18 | $\mathcal{O}(0; \{2, 3^4, 18^3\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2^2, 3^2, 6, 18^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^3, 6^2, 18^3\})$ | 72 |
| 18 | $\mathcal{O}(0; \{3, 6^3, 18^3\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2, 9^3, 18^3\})$ | 5346 |
| 18 | $\mathcal{O}(0; \{3^2, 9, 18^4\})$ | 3240 |
| 18 | $\mathcal{O}(0; \{2, 6, 9, 18^4\})$ | 1620 |
| 19 | $\mathcal{O}(1; \{19^4\})$ | 1994886 |
| 20 | $\mathcal{O}(2; \{5^2\})$ | 600000 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 20 | $\mathcal{O}(1; \{2^4, 5^2\})$ | 1200 |
| 20 | $\mathcal{O}(1; \{2, 4^2, 5^2\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{2^2, 5, 10^2\})$ | 3600 |
| 20 | $\mathcal{O}(1; \{10^4\})$ | 15600 |
| 20 | $\mathcal{O}(1; \{2^2, 4, 10, 20\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{5, 10, 20^2\})$ | 41600 |
| 20 | $\mathcal{O}(1; \{4, 20^3\})$ | 38400 |
| 20 | $\mathcal{O}(0; \{2^5, 4^2, 5^2\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^2, 4^4, 5^2\})$ | 32 |
| 20 | $\mathcal{O}(0; \{4^2, 5^4, 10\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^3, 4^2, 5, 10^2\})$ | 24 |
| 20 | $\mathcal{O}(0; \{4^4, 5, 10^2\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 10^4\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^3, 4, 5^3, 20\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4^3, 5^3, 20\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2^6, 4, 10, 20\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^3, 4^3, 10, 20\})$ | 32 |
| 20 | $\mathcal{O}(0; \{4^5, 10, 20\})$ | 128 |
| 20 | $\mathcal{O}(0; \{2, 4, 5^2, 10^2, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2, 5^4, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^4, 5, 10, 20^2\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 5, 10, 20^2\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2^2, 10^3, 20^2\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^4, 4, 20^3\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2, 4^3, 20^3\})$ | 384 |
| 20 | $\mathcal{O}(0; \{2^2, 5, 20^4\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{10^2, 20^4\})$ | 6560 |
| 21 | $\mathcal{O}(1; \{7^4\})$ | 72912 |
| 21 | $\mathcal{O}(1; \{3, 7, 21^2\})$ | 26460 |
| 21 | $\mathcal{O}(0; \{3^3, 7^4\})$ | 372 |
| 21 | $\mathcal{O}(0; \{3^4, 7, 21^2\})$ | 660 |
| 21 | $\mathcal{O}(0; \{7^3, 21^3\})$ | 13332 |
| 21 | $\mathcal{O}(0; \{3, 21^5\})$ | 24420 |
| 22 | $\mathcal{O}(1; \{2, 11^2, 22\})$ | 43560 |
| 22 | $\mathcal{O}(0; \{2^5, 11^2, 22\})$ | 90 |
| 22 | $\mathcal{O}(0; \{2^3, 11, 22^3\})$ | 910 |
| 22 | $\mathcal{O}(0; \{2, 22^5\})$ | 9090 |
| 24 | $\mathcal{O}(2; \{2^2\})$ | 307200 |
| 24 | $\mathcal{O}(1; \{2^6\})$ | 384 |
| 24 | $\mathcal{O}(1; \{2^2, 3^3\})$ | 864 |
| 24 | $\mathcal{O}(1; \{2^3, 4^2\})$ | 768 |
| 24 | $\mathcal{O}(1; \{4^4\})$ | 3072 |
| 24 | $\mathcal{O}(1; \{2^3, 3, 6\})$ | 864 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 24 | $\mathcal{O}(1; \{3, 4^2, 6\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{3^2, 6^2\})$ | 2592 |
| 24 | $\mathcal{O}(1; \{2, 6^3\})$ | 864 |
| 24 | $\mathcal{O}(1; \{2, 4, 8^2\})$ | 4096 |
| 24 | $\mathcal{O}(1; \{3^2, 4, 12\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{2, 4, 6, 12\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{2, 3, 12^2\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{2, 3, 8, 24\})$ | 4608 |
| 24 | $\mathcal{O}(0; \{2, 3^3, 4, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 4, 6, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{4, 6^3, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3, 6, 8^4\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 8^2, 12\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2^3, 6, 8^2, 12\})$ | 16 |
| 24 | $\mathcal{O}(0; \{4^2, 6, 8^2, 12\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3, 6^2, 8^2, 12\})$ | 48 |
| 24 | $\mathcal{O}(0; \{3, 4, 8^2, 12^2\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2, 8^2, 12^3\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2^5, 3, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2, 3^4, 8, 24\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 4^2, 8, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 6, 8, 24\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2^3, 6^2, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{4^2, 6^2, 8, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{3, 6^3, 8, 24\})$ | 40 |
| 24 | $\mathcal{O}(0; \{3, 4, 8^3, 24\})$ | 256 |
| 24 | $\mathcal{O}(0; \{2^3, 4, 8, 12, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{4^3, 8, 12, 24\})$ | 128 |
| 24 | $\mathcal{O}(0; \{3, 4, 6, 8, 12, 24\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2, 8^3, 12, 24\})$ | 256 |
| 24 | $\mathcal{O}(0; \{3^2, 8, 12^2, 24\})$ | 160 |
| 24 | $\mathcal{O}(0; \{2, 6, 8, 12^2, 24\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 4, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^3, 4, 6, 24^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{4^3, 6, 24^2\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3, 4, 6^2, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{3^2, 8^2, 24^2\})$ | 384 |
| 24 | $\mathcal{O}(0; \{2, 6, 8^2, 24^2\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^3, 3, 12, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{3, 4^2, 12, 24^2\})$ | 192 |
| 24 | $\mathcal{O}(0; \{3^2, 6, 12, 24^2\})$ | 176 |
| 24 | $\mathcal{O}(0; \{2, 6^2, 12, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2, 4, 12^2, 24^2\})$ | 192 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 24 | $\mathcal{O}(0; \{2, 4, 8, 24^3\})$ | 256 |
| 24 | $\mathcal{O}(0; \{2, 3, 24^4\})$ | 640 |
| 25 | $\mathcal{O}(1; \{25^3\})$ | 187500 |
| 26 | $\mathcal{O}(1; \{13^3\})$ | 66924 |
| 26 | $\mathcal{O}(0; \{2^4, 13^3\})$ | 132 |
| 26 | $\mathcal{O}(0; \{2^2, 13^2, 26^2\})$ | 1596 |
| 26 | $\mathcal{O}(0; \{13, 26^4\})$ | 19140 |
| 27 | $\mathcal{O}(1; \{3^4\})$ | 3888 |
| 27 | $\mathcal{O}(1; \{9^3\})$ | 11664 |
| 27 | $\mathcal{O}(0; \{9^2, 27^3\})$ | 5832 |
| 28 | $\mathcal{O}(1; \{7^3\})$ | 17640 |
| 28 | $\mathcal{O}(1; \{4, 7, 28\})$ | 9408 |
| 28 | $\mathcal{O}(0; \{2, 4^2, 7^3\})$ | 60 |
| 28 | $\mathcal{O}(0; \{2^4, 4, 7, 28\})$ | 12 |
| 28 | $\mathcal{O}(0; \{2, 4^3, 7, 28\})$ | 48 |
| 28 | $\mathcal{O}(0; \{2^2, 4, 14^2, 28\})$ | 60 |
| 28 | $\mathcal{O}(0; \{7^2, 14, 28^2\})$ | 2220 |
| 28 | $\mathcal{O}(0; \{4, 14, 28^3\})$ | 1488 |
| 30 | $\mathcal{O}(1; \{5^3\})$ | 7200 |
| 30 | $\mathcal{O}(1; \{3, 5, 15\})$ | 5400 |
| 30 | $\mathcal{O}(1; \{2, 15, 30\})$ | 7200 |
| 30 | $\mathcal{O}(0; \{2, 3, 5^3, 6\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^4, 3, 5, 15\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 5, 6, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 5, 6^2, 15\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 10^2, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{6^2, 10^2, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{5, 6, 10, 15^2\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 5^2, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 5^2, 6, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{5, 6, 10^2, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^5, 15, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2, 3^3, 15, 30\})$ | 40 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 6, 15, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{6^3, 15, 30\})$ | 40 |
| 30 | $\mathcal{O}(0; \{5^2, 10, 15, 30\})$ | 408 |
| 30 | $\mathcal{O}(0; \{3, 10, 15^2, 30\})$ | 312 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 5, 30^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{5, 6^2, 30^2\})$ | 72 |
| 30 | $\mathcal{O}(0; \{3, 10^2, 30^2\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^3, 30^3\})$ | 24 |
| 30 | $\mathcal{O}(0; \{3, 6, 30^3\})$ | 120 |
| 32 | $\mathcal{O}(1; \{2, 8^2\})$ | 3072 |

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Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 32 | $\mathcal{O}(0; \{2, 8, 16, 32^2\})$ | 512 |
| 33 | $\mathcal{O}(0; \{3^2, 11, 33^2\})$ | 540 |
| 36 | $\mathcal{O}(2; \emptyset)$ | 1555200 |
| 36 | $\mathcal{O}(1; \{2^4\})$ | 864 |
| 36 | $\mathcal{O}(1; \{3^3\})$ | 1728 |
| 36 | $\mathcal{O}(1; \{2, 4^2\})$ | 2304 |
| 36 | $\mathcal{O}(1; \{2, 3, 6\})$ | 1728 |
| 36 | $\mathcal{O}(0; \{3, 4^2, 9, 18\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2, 4, 9, 12, 18\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2, 4, 9^2, 36\})$ | 36 |
| 36 | $\mathcal{O}(0; \{3^2, 4, 18, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2, 4, 6, 18, 36\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2, 3, 12, 18, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2, 3, 9, 36^2\})$ | 72 |
| 37 | $\mathcal{O}(1; \{37^2\})$ | 49284 |
| 38 | $\mathcal{O}(1; \{19^2\})$ | 19494 |
| 38 | $\mathcal{O}(0; \{2^4, 19^2\})$ | 18 |
| 38 | $\mathcal{O}(0; \{2^2, 19, 38^2\})$ | 306 |
| 38 | $\mathcal{O}(0; \{38^4\})$ | 5526 |
| 39 | $\mathcal{O}(1; \{13^2\})$ | 16224 |
| 39 | $\mathcal{O}(0; \{3^3, 13^2\})$ | 24 |
| 39 | $\mathcal{O}(0; \{13, 39^3\})$ | 3192 |
| 40 | $\mathcal{O}(1; \{10^2\})$ | 4800 |
| 40 | $\mathcal{O}(0; \{2^2, 8, 20, 40\})$ | 32 |
| 40 | $\mathcal{O}(0; \{10, 20, 40^2\})$ | 416 |
| 40 | $\mathcal{O}(0; \{8, 40^3\})$ | 768 |
| 42 | $\mathcal{O}(1; \{7^2\})$ | 7056 |
| 42 | $\mathcal{O}(0; \{2, 3, 6, 7^2\})$ | 12 |
| 42 | $\mathcal{O}(0; \{2, 3^2, 14, 21\})$ | 12 |
| 42 | $\mathcal{O}(0; \{2^2, 6, 14, 21\})$ | 12 |
| 42 | $\mathcal{O}(0; \{7, 14, 21, 42\})$ | 372 |
| 42 | $\mathcal{O}(0; \{6, 21^2, 42\})$ | 180 |
| 42 | $\mathcal{O}(0; \{6, 14, 42^2\})$ | 60 |
| 44 | $\mathcal{O}(0; \{2^2, 4, 11, 44\})$ | 20 |
| 44 | $\mathcal{O}(0; \{4, 22^2, 44\})$ | 180 |
| 45 | $\mathcal{O}(1; \{5^2\})$ | 7200 |
| 45 | $\mathcal{O}(0; \{5, 9, 15, 45\})$ | 144 |
| 45 | $\mathcal{O}(0; \{3, 45^3\})$ | 432 |
| 48 | $\mathcal{O}(1; \{4^2\})$ | 3072 |
| 48 | $\mathcal{O}(0; \{3, 16^2, 24\})$ | 64 |
| 48 | $\mathcal{O}(0; \{4, 6, 16, 48\})$ | 32 |
| 48 | $\mathcal{O}(0; \{3, 12, 16, 48\})$ | 32 |
| 48 | $\mathcal{O}(0; \{3, 8, 48^2\})$ | 64 |

Continued on next page

Table 7 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------------|---|
| 50 | $\mathcal{O}(0; \{2^3, 25, 50\})$ | 20 |
| 50 | $\mathcal{O}(0; \{2, 50^3\})$ | 300 |
| 52 | $\mathcal{O}(0; \{4^2, 13, 26\})$ | 24 |
| 52 | $\mathcal{O}(0; \{2, 13, 52^2\})$ | 264 |
| 54 | $\mathcal{O}(1; \{3^2\})$ | 3888 |
| 54 | $\mathcal{O}(0; \{2, 9, 27, 54\})$ | 108 |
| 56 | $\mathcal{O}(0; \{2, 8, 14, 56\})$ | 24 |
| 57 | $\mathcal{O}(0; \{3^2, 19, 57\})$ | 36 |
| 60 | $\mathcal{O}(0; \{3, 4, 5, 60\})$ | 16 |
| 60 | $\mathcal{O}(0; \{2, 5, 12, 60\})$ | 16 |
| 60 | $\mathcal{O}(0; \{2, 4, 30, 60\})$ | 16 |
| 66 | $\mathcal{O}(0; \{2, 3, 22, 33\})$ | 20 |
| 72 | $\mathcal{O}(1; \{2^2\})$ | 3456 |
| 74 | $\mathcal{O}(0; \{2^2, 74^2\})$ | 36 |
| 75 | $\mathcal{O}(0; \{75^3\})$ | 600 |
| 76 | $\mathcal{O}(0; \{38, 76^2\})$ | 612 |
| 78 | $\mathcal{O}(0; \{26, 39, 78\})$ | 264 |
| 80 | $\mathcal{O}(0; \{16, 40, 80\})$ | 128 |
| 84 | $\mathcal{O}(0; \{12, 28, 42\})$ | 24 |
| 84 | $\mathcal{O}(0; \{12, 21, 84\})$ | 24 |
| 88 | $\mathcal{O}(0; \{8, 22, 88\})$ | 40 |
| 90 | $\mathcal{O}(0; \{6, 45, 90\})$ | 48 |
| 100 | $\mathcal{O}(0; \{4, 50, 100\})$ | 40 |
| 111 | $\mathcal{O}(0; \{3, 111^2\})$ | 72 |
| 114 | $\mathcal{O}(0; \{3, 38, 114\})$ | 36 |
| 148 | $\mathcal{O}(0; \{2, 148^2\})$ | 72 |
| 150 | $\mathcal{O}(0; \{2, 75, 150\})$ | 40 |

Table 8: 38-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------|---|
| 1 | $\mathcal{O}(38; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(19; \{2^2\})$ | 274877906944 |
| 2 | $\mathcal{O}(18; \{2^6\})$ | 68719476736 |
| 2 | $\mathcal{O}(17; \{2^{10}\})$ | 17179869184 |
| 2 | $\mathcal{O}(16; \{2^{14}\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^{18}\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{22}\})$ | 268435456 |
| 2 | $\mathcal{O}(13; \{2^{26}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{30}\})$ | 16777216 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-----------------------------------|---|
| 2 | $\mathcal{O}(11; \{2^{34}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{38}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{42}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{46}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{50}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{54}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{58}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{62}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{66}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{70}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{74}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{78}\})$ | 1 |
| 3 | $\mathcal{O}(12; \{3^4\})$ | 1694577218886 |
| 3 | $\mathcal{O}(11; \{3^7\})$ | 1318004503578 |
| 3 | $\mathcal{O}(10; \{3^{10}\})$ | 1192480265142 |
| 3 | $\mathcal{O}(9; \{3^{13}\})$ | 1057657934970 |
| 3 | $\mathcal{O}(8; \{3^{16}\})$ | 940398666966 |
| 3 | $\mathcal{O}(7; \{3^{19}\})$ | 835881228378 |
| 3 | $\mathcal{O}(6; \{3^{22}\})$ | 743008724982 |
| 3 | $\mathcal{O}(5; \{3^{25}\})$ | 660451845690 |
| 3 | $\mathcal{O}(4; \{3^{28}\})$ | 587068346646 |
| 3 | $\mathcal{O}(3; \{3^{31}\})$ | 521838525978 |
| 3 | $\mathcal{O}(2; \{3^{34}\})$ | 463856468022 |
| 3 | $\mathcal{O}(1; \{3^{37}\})$ | 412316860410 |
| 3 | $\mathcal{O}(0; \{3^{40}\})$ | 366503875926 |
| 4 | $\mathcal{O}(9; \{2^2, 4^2\})$ | 137438953472 |
| 4 | $\mathcal{O}(8; \{2^6, 4^2\})$ | 8589934592 |
| 4 | $\mathcal{O}(8; \{2^3, 4^4\})$ | 34359738368 |
| 4 | $\mathcal{O}(8; \{4^6\})$ | 137438953472 |
| 4 | $\mathcal{O}(7; \{2^{10}, 4^2\})$ | 536870912 |
| 4 | $\mathcal{O}(7; \{2^7, 4^4\})$ | 2147483648 |
| 4 | $\mathcal{O}(7; \{2^4, 4^6\})$ | 8589934592 |
| 4 | $\mathcal{O}(7; \{2, 4^8\})$ | 34359738368 |
| 4 | $\mathcal{O}(6; \{2^{14}, 4^2\})$ | 33554432 |
| 4 | $\mathcal{O}(6; \{2^{11}, 4^4\})$ | 134217728 |
| 4 | $\mathcal{O}(6; \{2^8, 4^6\})$ | 536870912 |
| 4 | $\mathcal{O}(6; \{2^5, 4^8\})$ | 2147483648 |
| 4 | $\mathcal{O}(6; \{2^2, 4^{10}\})$ | 8589934592 |
| 4 | $\mathcal{O}(5; \{2^{18}, 4^2\})$ | 2097152 |
| 4 | $\mathcal{O}(5; \{2^{15}, 4^4\})$ | 8388608 |
| 4 | $\mathcal{O}(5; \{2^{12}, 4^6\})$ | 33554432 |
| 4 | $\mathcal{O}(5; \{2^9, 4^8\})$ | 134217728 |
| 4 | $\mathcal{O}(5; \{2^6, 4^{10}\})$ | 536870912 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(5; \{2^3, 4^{12}\})$ | 2147483648 |
| 4 | $\mathcal{O}(5; \{4^{14}\})$ | 8589934592 |
| 4 | $\mathcal{O}(4; \{2^{22}, 4^2\})$ | 131072 |
| 4 | $\mathcal{O}(4; \{2^{19}, 4^4\})$ | 524288 |
| 4 | $\mathcal{O}(4; \{2^{16}, 4^6\})$ | 2097152 |
| 4 | $\mathcal{O}(4; \{2^{13}, 4^8\})$ | 8388608 |
| 4 | $\mathcal{O}(4; \{2^{10}, 4^{10}\})$ | 33554432 |
| 4 | $\mathcal{O}(4; \{2^7, 4^{12}\})$ | 134217728 |
| 4 | $\mathcal{O}(4; \{2^4, 4^{14}\})$ | 536870912 |
| 4 | $\mathcal{O}(4; \{2, 4^{16}\})$ | 2147483648 |
| 4 | $\mathcal{O}(3; \{2^{26}, 4^2\})$ | 8192 |
| 4 | $\mathcal{O}(3; \{2^{23}, 4^4\})$ | 32768 |
| 4 | $\mathcal{O}(3; \{2^{20}, 4^6\})$ | 131072 |
| 4 | $\mathcal{O}(3; \{2^{17}, 4^8\})$ | 524288 |
| 4 | $\mathcal{O}(3; \{2^{14}, 4^{10}\})$ | 2097152 |
| 4 | $\mathcal{O}(3; \{2^{11}, 4^{12}\})$ | 8388608 |
| 4 | $\mathcal{O}(3; \{2^8, 4^{14}\})$ | 33554432 |
| 4 | $\mathcal{O}(3; \{2^5, 4^{16}\})$ | 134217728 |
| 4 | $\mathcal{O}(3; \{2^2, 4^{18}\})$ | 536870912 |
| 4 | $\mathcal{O}(2; \{2^{30}, 4^2\})$ | 512 |
| 4 | $\mathcal{O}(2; \{2^{27}, 4^4\})$ | 2048 |
| 4 | $\mathcal{O}(2; \{2^{24}, 4^6\})$ | 8192 |
| 4 | $\mathcal{O}(2; \{2^{21}, 4^8\})$ | 32768 |
| 4 | $\mathcal{O}(2; \{2^{18}, 4^{10}\})$ | 131072 |
| 4 | $\mathcal{O}(2; \{2^{15}, 4^{12}\})$ | 524288 |
| 4 | $\mathcal{O}(2; \{2^{12}, 4^{14}\})$ | 2097152 |
| 4 | $\mathcal{O}(2; \{2^9, 4^{16}\})$ | 8388608 |
| 4 | $\mathcal{O}(2; \{2^6, 4^{18}\})$ | 33554432 |
| 4 | $\mathcal{O}(2; \{2^3, 4^{20}\})$ | 134217728 |
| 4 | $\mathcal{O}(2; \{4^{22}\})$ | 536870912 |
| 4 | $\mathcal{O}(1; \{2^{34}, 4^2\})$ | 32 |
| 4 | $\mathcal{O}(1; \{2^{31}, 4^4\})$ | 128 |
| 4 | $\mathcal{O}(1; \{2^{28}, 4^6\})$ | 512 |
| 4 | $\mathcal{O}(1; \{2^{25}, 4^8\})$ | 2048 |
| 4 | $\mathcal{O}(1; \{2^{22}, 4^{10}\})$ | 8192 |
| 4 | $\mathcal{O}(1; \{2^{19}, 4^{12}\})$ | 32768 |
| 4 | $\mathcal{O}(1; \{2^{16}, 4^{14}\})$ | 131072 |
| 4 | $\mathcal{O}(1; \{2^{13}, 4^{16}\})$ | 524288 |
| 4 | $\mathcal{O}(1; \{2^{10}, 4^{18}\})$ | 2097152 |
| 4 | $\mathcal{O}(1; \{2^7, 4^{20}\})$ | 8388608 |
| 4 | $\mathcal{O}(1; \{2^4, 4^{22}\})$ | 33554432 |
| 4 | $\mathcal{O}(1; \{2, 4^{24}\})$ | 134217728 |
| 4 | $\mathcal{O}(0; \{2^{38}, 4^2\})$ | 2 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 4 | $\mathcal{O}(0; \{2^{35}, 4^4\})$ | 8 |
| 4 | $\mathcal{O}(0; \{2^{32}, 4^6\})$ | 32 |
| 4 | $\mathcal{O}(0; \{2^{29}, 4^8\})$ | 128 |
| 4 | $\mathcal{O}(0; \{2^{26}, 4^{10}\})$ | 512 |
| 4 | $\mathcal{O}(0; \{2^{23}, 4^{12}\})$ | 2048 |
| 4 | $\mathcal{O}(0; \{2^{20}, 4^{14}\})$ | 8192 |
| 4 | $\mathcal{O}(0; \{2^{17}, 4^{16}\})$ | 32768 |
| 4 | $\mathcal{O}(0; \{2^{14}, 4^{18}\})$ | 131072 |
| 4 | $\mathcal{O}(0; \{2^{11}, 4^{20}\})$ | 524288 |
| 4 | $\mathcal{O}(0; \{2^8, 4^{22}\})$ | 2097152 |
| 4 | $\mathcal{O}(0; \{2^5, 4^{24}\})$ | 8388608 |
| 4 | $\mathcal{O}(0; \{2^2, 4^{26}\})$ | 33554432 |
| 5 | $\mathcal{O}(6; \{5^6\})$ | 200195312500 |
| 5 | $\mathcal{O}(4; \{5^{11}\})$ | 327679687500 |
| 5 | $\mathcal{O}(2; \{5^{16}\})$ | 536870912500 |
| 5 | $\mathcal{O}(0; \{5^{21}\})$ | 879609302220 |
| 6 | $\mathcal{O}(6; \{2^2, 3^2\})$ | 4353564672 |
| 6 | $\mathcal{O}(6; \{3, 6^2\})$ | 4353564672 |
| 6 | $\mathcal{O}(5; \{2^6, 3^2\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{2^2, 3^5\})$ | 604661760 |
| 6 | $\mathcal{O}(5; \{2^3, 3^3, 6\})$ | 362797056 |
| 6 | $\mathcal{O}(5; \{2^4, 3, 6^2\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{3^4, 6^2\})$ | 1330255872 |
| 6 | $\mathcal{O}(5; \{2, 3^2, 6^3\})$ | 604661760 |
| 6 | $\mathcal{O}(5; \{2^2, 6^4\})$ | 362797056 |
| 6 | $\mathcal{O}(4; \{2^{10}, 3^2\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^6, 3^5\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^2, 3^8\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2^7, 3^3, 6\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2^3, 3^6, 6\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^8, 3, 6^2\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^4, 3^4, 6^2\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{3^7, 6^2\})$ | 285534720 |
| 6 | $\mathcal{O}(4; \{2^5, 3^2, 6^3\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2, 3^5, 6^3\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2^6, 6^4\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2^2, 3^3, 6^4\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^3, 3, 6^5\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{3^2, 6^6\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2, 6^7\})$ | 70543872 |
| 6 | $\mathcal{O}(3; \{2^{14}, 3^2\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^{10}, 3^5\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^6, 3^8\})$ | 4012416 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(3; \{2^2, 3^{11}\})$ | 31819392 |
| 6 | $\mathcal{O}(3; \{2^{11}, 3^3, 6\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^7, 3^6, 6\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^3, 3^9, 6\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^{12}, 3, 6^2\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^8, 3^4, 6^2\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^4, 3^7, 6^2\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{3^{10}, 6^2\})$ | 63732096 |
| 6 | $\mathcal{O}(3; \{2^9, 3^2, 6^3\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^5, 3^5, 6^3\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2, 3^8, 6^3\})$ | 31819392 |
| 6 | $\mathcal{O}(3; \{2^{10}, 6^4\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^6, 3^3, 6^4\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^2, 3^6, 6^4\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^7, 3, 6^5\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^3, 3^4, 6^5\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2^4, 3^2, 6^6\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{3^5, 6^6\})$ | 31819392 |
| 6 | $\mathcal{O}(3; \{2^5, 6^7\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2, 3^3, 6^7\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^2, 3, 6^8\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{6^{10}\})$ | 15956352 |
| 6 | $\mathcal{O}(2; \{2^{18}, 3^2\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{14}, 3^5\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3^8\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^6, 3^{11}\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^2, 3^{14}\})$ | 7078752 |
| 6 | $\mathcal{O}(2; \{2^{15}, 3^3, 6\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^{11}, 3^6, 6\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^7, 3^9, 6\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^3, 3^{12}, 6\})$ | 3538080 |
| 6 | $\mathcal{O}(2; \{2^{16}, 3, 6^2\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{12}, 3^4, 6^2\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^8, 3^7, 6^2\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^4, 3^{10}, 6^2\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{3^{13}, 6^2\})$ | 14154912 |
| 6 | $\mathcal{O}(2; \{2^{13}, 3^2, 6^3\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^9, 3^5, 6^3\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^5, 3^8, 6^3\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2, 3^{11}, 6^3\})$ | 7078752 |
| 6 | $\mathcal{O}(2; \{2^{14}, 6^4\})$ | 7776 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3^3, 6^4\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^6, 3^6, 6^4\})$ | 443232 |

Continued on next page

Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------|---|
| 6 | $O(2; \{2^2, 3^9, 6^4\})$ | 3538080 |
| 6 | $O(2; \{2^{11}, 3, 6^5\})$ | 28512 |
| 6 | $O(2; \{2^7, 3^4, 6^5\})$ | 220320 |
| 6 | $O(2; \{2^3, 3^7, 6^5\})$ | 1770336 |
| 6 | $O(2; \{2^8, 3^2, 6^6\})$ | 111456 |
| 6 | $O(2; \{2^4, 3^5, 6^6\})$ | 883872 |
| 6 | $O(2; \{3^8, 6^6\})$ | 7078752 |
| 6 | $O(2; \{2^9, 6^7\})$ | 54432 |
| 6 | $O(2; \{2^5, 3^3, 6^7\})$ | 443232 |
| 6 | $O(2; \{2, 3^6, 6^7\})$ | 3538080 |
| 6 | $O(2; \{2^6, 3, 6^8\})$ | 220320 |
| 6 | $O(2; \{2^2, 3^4, 6^8\})$ | 1770336 |
| 6 | $O(2; \{2^3, 3^2, 6^9\})$ | 883872 |
| 6 | $O(2; \{2^4, 6^{10}\})$ | 443232 |
| 6 | $O(2; \{3^3, 6^{10}\})$ | 3538080 |
| 6 | $O(2; \{2, 3, 6^{11}\})$ | 1770336 |
| 6 | $O(1; \{2^{22}, 3^2\})$ | 72 |
| 6 | $O(1; \{2^{18}, 3^5\})$ | 360 |
| 6 | $O(1; \{2^{14}, 3^8\})$ | 3096 |
| 6 | $O(1; \{2^{10}, 3^{11}\})$ | 24552 |
| 6 | $O(1; \{2^6, 3^{14}\})$ | 196632 |
| 6 | $O(1; \{2^2, 3^{17}\})$ | 1572840 |
| 6 | $O(1; \{2^{19}, 3^3, 6\})$ | 216 |
| 6 | $O(1; \{2^{15}, 3^6, 6\})$ | 1512 |
| 6 | $O(1; \{2^{11}, 3^9, 6\})$ | 12312 |
| 6 | $O(1; \{2^7, 3^{12}, 6\})$ | 98280 |
| 6 | $O(1; \{2^3, 3^{15}, 6\})$ | 786456 |
| 6 | $O(1; \{2^{20}, 3, 6^2\})$ | 72 |
| 6 | $O(1; \{2^{16}, 3^4, 6^2\})$ | 792 |
| 6 | $O(1; \{2^{12}, 3^7, 6^2\})$ | 6120 |
| 6 | $O(1; \{2^8, 3^{10}, 6^2\})$ | 49176 |
| 6 | $O(1; \{2^4, 3^{13}, 6^2\})$ | 393192 |
| 6 | $O(1; \{3^{16}, 6^2\})$ | 3145752 |
| 6 | $O(1; \{2^{17}, 3^2, 6^3\})$ | 360 |
| 6 | $O(1; \{2^{13}, 3^5, 6^3\})$ | 3096 |
| 6 | $O(1; \{2^9, 3^8, 6^3\})$ | 24552 |
| 6 | $O(1; \{2^5, 3^{11}, 6^3\})$ | 196632 |
| 6 | $O(1; \{2, 3^{14}, 6^3\})$ | 1572840 |
| 6 | $O(1; \{2^{18}, 6^4\})$ | 216 |
| 6 | $O(1; \{2^{14}, 3^3, 6^4\})$ | 1512 |
| 6 | $O(1; \{2^{10}, 3^6, 6^4\})$ | 12312 |
| 6 | $O(1; \{2^6, 3^9, 6^4\})$ | 98280 |
| 6 | $O(1; \{2^2, 3^{12}, 6^4\})$ | 786456 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(1; \{2^{15}, 3, 6^5\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^4, 6^5\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^7, 3^7, 6^5\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^3, 3^{10}, 6^5\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^2, 6^6\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^8, 3^5, 6^6\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^4, 3^8, 6^6\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{3^{11}, 6^6\})$ | 1572840 |
| 6 | $\mathcal{O}(1; \{2^{13}, 6^7\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^9, 3^3, 6^7\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^5, 3^6, 6^7\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2, 3^9, 6^7\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3, 6^8\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^6, 3^4, 6^8\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^2, 3^7, 6^8\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^7, 3^2, 6^9\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^3, 3^5, 6^9\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^8, 6^{10}\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^4, 3^3, 6^{10}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{3^6, 6^{10}\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^5, 3, 6^{11}\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2, 3^4, 6^{11}\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^2, 3^2, 6^{12}\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^3, 6^{13}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{3, 6^{14}\})$ | 393192 |
| 6 | $\mathcal{O}(0; \{2^{26}, 3^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3^5\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^8\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^{11}\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{14}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{17}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{20}\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{23}, 3^3, 6\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^6, 6\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^9, 6\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^{12}, 6\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{15}, 6\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{18}, 6\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{24}, 3, 6^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^4, 6^2\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^7, 6^2\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^{10}, 6^2\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{13}, 6^2\})$ | 10922 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2^4, 3^{16}, 6^2\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{3^{19}, 6^2\})$ | 699050 |
| 6 | $\mathcal{O}(0; \{2^{21}, 3^2, 6^3\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^5, 6^3\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^8, 6^3\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^9, 3^{11}, 6^3\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{14}, 6^3\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2, 3^{17}, 6^3\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{22}, 6^4\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^3, 6^4\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^6, 6^4\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^9, 6^4\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{12}, 6^4\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{15}, 6^4\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3, 6^5\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^4, 6^5\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^7, 6^5\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{10}, 6^5\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{13}, 6^5\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^2, 6^6\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^5, 6^6\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^8, 3^8, 6^6\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{11}, 6^6\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{3^{14}, 6^6\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{17}, 6^7\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^3, 6^7\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^9, 3^6, 6^7\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^5, 3^9, 6^7\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2, 3^{12}, 6^7\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3, 6^8\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^4, 6^8\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^6, 3^7, 6^8\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{10}, 6^8\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^2, 6^9\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^7, 3^5, 6^9\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^3, 3^8, 6^9\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^{12}, 6^{10}\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^8, 3^3, 6^{10}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^4, 3^6, 6^{10}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{3^9, 6^{10}\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^9, 3, 6^{11}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^5, 3^4, 6^{11}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2, 3^7, 6^{11}\})$ | 87382 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(0; \{2^6, 3^2, 6^{12}\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^2, 3^5, 6^{12}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^7, 6^{13}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^3, 3^3, 6^{13}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^4, 3, 6^{14}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{3^4, 6^{14}\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2, 3^2, 6^{15}\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^2, 6^{16}\})$ | 21846 |
| 7 | $\mathcal{O}(5; \{7^3\})$ | 8474257470 |
| 7 | $\mathcal{O}(2; \{7^{10}\})$ | 20739900426 |
| 8 | $\mathcal{O}(4; \{2^3, 8^2\})$ | 67108864 |
| 8 | $\mathcal{O}(4; \{4^2, 8^2\})$ | 268435456 |
| 8 | $\mathcal{O}(3; \{2^7, 8^2\})$ | 1048576 |
| 8 | $\mathcal{O}(3; \{2^4, 4^2, 8^2\})$ | 4194304 |
| 8 | $\mathcal{O}(3; \{2, 4^4, 8^2\})$ | 16777216 |
| 8 | $\mathcal{O}(3; \{2^2, 4, 8^4\})$ | 33554432 |
| 8 | $\mathcal{O}(3; \{8^6\})$ | 268435456 |
| 8 | $\mathcal{O}(2; \{2^{11}, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(2; \{2^8, 4^2, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(2; \{2^5, 4^4, 8^2\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2^2, 4^6, 8^2\})$ | 1048576 |
| 8 | $\mathcal{O}(2; \{2^6, 4, 8^4\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{2^3, 4^3, 8^4\})$ | 2097152 |
| 8 | $\mathcal{O}(2; \{4^5, 8^4\})$ | 8388608 |
| 8 | $\mathcal{O}(2; \{2^4, 8^6\})$ | 4194304 |
| 8 | $\mathcal{O}(2; \{2, 4^2, 8^6\})$ | 16777216 |
| 8 | $\mathcal{O}(1; \{2^{15}, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(1; \{2^{12}, 4^2, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(1; \{2^9, 4^4, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^6, 4^6, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(1; \{2^3, 4^8, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{4^{10}, 8^2\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{2^{10}, 4, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^7, 4^3, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2^4, 4^5, 8^4\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2, 4^7, 8^4\})$ | 524288 |
| 8 | $\mathcal{O}(1; \{2^8, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^5, 4^2, 8^6\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{2^2, 4^4, 8^6\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{2^3, 4, 8^8\})$ | 2097152 |
| 8 | $\mathcal{O}(1; \{4^3, 8^8\})$ | 8388608 |
| 8 | $\mathcal{O}(1; \{2, 8^{10}\})$ | 16777216 |
| 8 | $\mathcal{O}(0; \{2^{19}, 8^2\})$ | 4 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(0; \{2^{16}, 4^2, 8^2\})$ | 16 |
| 8 | $\mathcal{O}(0; \{2^{13}, 4^4, 8^2\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^{10}, 4^6, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^7, 4^8, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^4, 4^{10}, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2, 4^{12}, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^{14}, 4, 8^4\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^{11}, 4^3, 8^4\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^8, 4^5, 8^4\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^5, 4^7, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^2, 4^9, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^{12}, 8^6\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^9, 4^2, 8^6\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^6, 4^4, 8^6\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^3, 4^6, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{4^8, 8^6\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{2^7, 4, 8^8\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^4, 4^3, 8^8\})$ | 131072 |
| 8 | $\mathcal{O}(0; \{2, 4^5, 8^8\})$ | 524288 |
| 8 | $\mathcal{O}(0; \{2^5, 8^{10}\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{2^2, 4^2, 8^{10}\})$ | 1048576 |
| 8 | $\mathcal{O}(0; \{4, 8^{12}\})$ | 8388608 |
| 9 | $\mathcal{O}(3; \{3, 9^4\})$ | 172186884 |
| 9 | $\mathcal{O}(2; \{3^4, 9^4\})$ | 17006112 |
| 9 | $\mathcal{O}(2; \{9^7\})$ | 200884698 |
| 9 | $\mathcal{O}(1; \{3^7, 9^4\})$ | 1679616 |
| 9 | $\mathcal{O}(1; \{3^3, 9^7\})$ | 19840464 |
| 9 | $\mathcal{O}(0; \{3^{10}, 9^4\})$ | 165888 |
| 9 | $\mathcal{O}(0; \{3^6, 9^7\})$ | 1959552 |
| 9 | $\mathcal{O}(0; \{3^2, 9^{10}\})$ | 26926344 |
| 10 | $\mathcal{O}(3; \{2^2, 5^3\})$ | 12000000 |
| 10 | $\mathcal{O}(3; \{5^2, 10^2\})$ | 52000000 |
| 10 | $\mathcal{O}(2; \{2^6, 5^3\})$ | 120000 |
| 10 | $\mathcal{O}(2; \{2, 5^5, 10\})$ | 8200000 |
| 10 | $\mathcal{O}(2; \{2^4, 5^2, 10^2\})$ | 520000 |
| 10 | $\mathcal{O}(2; \{2^2, 5, 10^4\})$ | 2040000 |
| 10 | $\mathcal{O}(2; \{10^6\})$ | 8200000 |
| 10 | $\mathcal{O}(1; \{2^{10}, 5^3\})$ | 1200 |
| 10 | $\mathcal{O}(1; \{2^2, 5^8\})$ | 1310800 |
| 10 | $\mathcal{O}(1; \{2^5, 5^5, 10\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^8, 5^2, 10^2\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{5^7, 10^2\})$ | 5242800 |
| 10 | $\mathcal{O}(1; \{2^3, 5^4, 10^3\})$ | 327600 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 10 | $\mathcal{O}(1; \{2^6, 5, 10^4\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2, 5^3, 10^5\})$ | 1310800 |
| 10 | $\mathcal{O}(1; \{2^4, 10^6\})$ | 82000 |
| 10 | $\mathcal{O}(0; \{2^{14}, 5^3\})$ | 12 |
| 10 | $\mathcal{O}(0; \{2^6, 5^8\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^9, 5^5, 10\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2, 5^{10}, 10\})$ | 838860 |
| 10 | $\mathcal{O}(0; \{2^{12}, 5^2, 10^2\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^4, 5^7, 10^2\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^7, 5^4, 10^3\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^{10}, 5, 10^4\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2^2, 5^6, 10^4\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^5, 5^3, 10^5\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^8, 10^6\})$ | 820 |
| 10 | $\mathcal{O}(0; \{5^5, 10^6\})$ | 838860 |
| 10 | $\mathcal{O}(0; \{2^3, 5^2, 10^7\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2, 5, 10^9\})$ | 209716 |
| 11 | $\mathcal{O}(3; \{11^3\})$ | 159440490 |
| 12 | $\mathcal{O}(2; \{3^4, 4^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2, 3^2, 4^2, 6\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^2, 4^2, 6^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 3^3, 4, 12\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^2, 3, 4, 6, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{4, 6^3, 12\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^2, 3^2, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^3, 6, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{4^2, 6, 12^2\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{3, 6^2, 12^2\})$ | 414720 |
| 12 | $\mathcal{O}(2; \{3, 4, 12^3\})$ | 995328 |
| 12 | $\mathcal{O}(2; \{2, 12^4\})$ | 995328 |
| 12 | $\mathcal{O}(1; \{2^4, 3^4, 4^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^7, 4^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 4^4\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^5, 3^2, 4^2, 6\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^5, 4^2, 6\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4^4, 6\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^6, 4^2, 6^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 4^2, 6^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^3, 4^4, 6^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{4^6, 6^2\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4^2, 6^3\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3, 4^4, 6^3\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3^2, 4^2, 6^4\})$ | 6336 |

Continued on next page

Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2, 4^2, 6^3\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^5, 3^3, 4, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2, 3^6, 4, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 4^3, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^6, 3, 4, 6, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^4, 4, 6, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4^3, 6, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3, 4^5, 6, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 4, 6^2, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3^2, 4^3, 6^2, 12\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^4, 4, 6^3, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^3, 4, 6^3, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 4^3, 6^3, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2, 3, 4, 6^4, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^6, 3^2, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^2, 3^5, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 4^2, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3^2, 4^4, 12^2\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{2^7, 6, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^3, 3^3, 6, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^4, 4^2, 6, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^3, 4^2, 6, 12^2\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2, 4^4, 6, 12^2\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 6^2, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3^4, 6^2, 12^2\})$ | 24768 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^2, 6^2, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 6^3, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^2, 6^4, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 4, 12^3\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3^4, 4, 12^3\})$ | 48384 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^3, 12^3\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4, 6, 12^3\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^2, 4, 6^2, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^5, 12^4\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 12^4\})$ | 48384 |
| 12 | $\mathcal{O}(1; \{2^2, 4^2, 12^4\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 6, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{6^3, 12^4\})$ | 48384 |
| 12 | $\mathcal{O}(1; \{4, 6, 12^5\})$ | 101376 |
| 12 | $\mathcal{O}(1; \{3, 12^6\})$ | 193536 |
| 12 | $\mathcal{O}(0; \{2^8, 3^4, 4^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^7, 4^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^{10}, 4^2\})$ | 684 |

Continued on next page

Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 4^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 4^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^6\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^9, 3^2, 4^2, 6\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^5, 4^2, 6\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^8, 4^2, 6\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4^4, 6\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4^4, 6\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^6, 6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^2, 4^8, 6\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^{10}, 4^2, 6^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 4^2, 6^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 4^2, 6^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^7, 4^4, 6^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^4, 6^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^4, 4^6, 6^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^3, 4^6, 6^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 4^8, 6^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4^2, 6^3\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4^2, 6^3\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^4, 6^3\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^4, 4^4, 6^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^6, 6^3\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^2, 6^4\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^5, 4^2, 6^4\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^4, 6^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^5, 4^2, 6^5\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^2, 6^5\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^2, 4^4, 6^5\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^2, 6^6\})$ | 84 |
| 12 | $\mathcal{O}(0; \{4^2, 6^8\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^9, 3^3, 4, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^5, 3^6, 4, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^9, 4, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 4^3, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 4^3, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^5, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^3, 4^7, 12\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^{10}, 3, 4, 6, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^4, 4, 6, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^7, 4, 6, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4^3, 6, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4^3, 6, 12\})$ | 176 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^5, 6, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^4, 4^5, 6, 12\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^7, 6, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 4, 6^2, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 4, 6^2, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^3, 6^2, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^5, 4^3, 6^2, 12\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^5, 6^2, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^8, 4, 6^3, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4, 6^3, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^6, 4, 6^3, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 4^3, 6^3, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^3, 6^3, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 4^5, 6^3, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4, 6^4, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4, 6^4, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^3, 6^4, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4, 6^5, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 4, 6^6, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{4^3, 6^6, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3, 4, 6^7, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^{10}, 3^2, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^6, 3^5, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^2, 3^8, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 4^2, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 4^2, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^4, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^5, 4^4, 12^2\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^6, 12^2\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^{11}, 6, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^7, 3^3, 6, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^3, 3^6, 6, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^8, 4^2, 6, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4^2, 6, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^6, 4^2, 6, 12^2\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^5, 4^4, 6, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^4, 6, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 4^6, 6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 6^2, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 6^2, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3^7, 6^2, 12^2\})$ | 1364 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^2, 6^2, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^2, 6^2, 12^2\})$ | 688 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^4, 6^2, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 6^3, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 6^3, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^2, 6^3, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^6, 6^4, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 6^4, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^3, 4^2, 6^4, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{4^4, 6^4, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 6^5, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3, 4^2, 6^5, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{3^2, 6^6, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2, 6^7, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 4, 12^3\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 4, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^7, 4, 12^3\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^3, 12^3\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^3, 12^3\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^5, 12^3\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4, 6, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4, 6, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^3, 6, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^6, 4, 6^2, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4, 6^2, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 4^3, 6^2, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{4^5, 6^2, 12^3\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4, 6^3, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3, 4^3, 6^3, 12^3\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3^2, 4, 6^4, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 4, 6^5, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^9, 12^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2^6, 4^2, 12^4\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^2, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^3, 4^4, 12^4\})$ | 768 |
| 12 | $\mathcal{O}(0; \{4^6, 12^4\})$ | 3072 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 6, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 6, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^2, 6, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3, 4^4, 6, 12^4\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 6^2, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{3^2, 4^2, 6^2, 12^4\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^4, 6^3, 12^4\})$ | 336 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{3^3, 6^3, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2, 4^2, 6^3, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 3, 6^4, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3^2, 4^3, 12^5\})$ | 5376 |
| 12 | $\mathcal{O}(0; \{2^4, 4, 6, 12^5\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3^3, 4, 6, 12^5\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2, 4^3, 6, 12^5\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2, 3, 4, 6^2, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 12^6\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3^4, 12^6\})$ | 10944 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^2, 12^6\})$ | 5376 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 6, 12^6\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2^2, 6^2, 12^6\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^2, 4, 12^7\})$ | 5376 |
| 12 | $\mathcal{O}(0; \{6, 12^8\})$ | 21760 |
| 13 | $\mathcal{O}(2; \{13^4\})$ | 45583356 |
| 14 | $\mathcal{O}(2; \{2^3, 7, 14\})$ | 230496 |
| 14 | $\mathcal{O}(2; \{2, 14^3\})$ | 1152480 |
| 14 | $\mathcal{O}(1; \{2^2, 7^5\})$ | 217560 |
| 14 | $\mathcal{O}(1; \{2^7, 7, 14\})$ | 1176 |
| 14 | $\mathcal{O}(1; \{7^4, 14^2\})$ | 1306536 |
| 14 | $\mathcal{O}(1; \{2^5, 14^3\})$ | 5880 |
| 14 | $\mathcal{O}(0; \{2^6, 7^5\})$ | 1110 |
| 14 | $\mathcal{O}(0; \{2^{11}, 7, 14\})$ | 6 |
| 14 | $\mathcal{O}(0; \{2^4, 7^4, 14^2\})$ | 6666 |
| 14 | $\mathcal{O}(0; \{2^9, 14^3\})$ | 30 |
| 14 | $\mathcal{O}(0; \{2^2, 7^3, 14^4\})$ | 39990 |
| 14 | $\mathcal{O}(0; \{7^2, 14^6\})$ | 239946 |
| 15 | $\mathcal{O}(2; \{3^2, 5^2\})$ | 405000 |
| 15 | $\mathcal{O}(1; \{3^5, 5^2\})$ | 9000 |
| 15 | $\mathcal{O}(1; \{3, 5^3, 15^2\})$ | 91800 |
| 15 | $\mathcal{O}(1; \{3^2, 5, 15^3\})$ | 117000 |
| 15 | $\mathcal{O}(0; \{3^8, 5^2\})$ | 344 |
| 15 | $\mathcal{O}(0; \{3^2, 5^7\})$ | 6552 |
| 15 | $\mathcal{O}(0; \{3^3, 5^5, 15\})$ | 4920 |
| 15 | $\mathcal{O}(0; \{3^4, 5^3, 15^2\})$ | 4488 |
| 15 | $\mathcal{O}(0; \{3^5, 5, 15^3\})$ | 4472 |
| 15 | $\mathcal{O}(0; \{5^4, 15^4\})$ | 78648 |
| 15 | $\mathcal{O}(0; \{3, 5^2, 15^5\})$ | 72072 |
| 15 | $\mathcal{O}(0; \{3^2, 15^6\})$ | 70520 |
| 16 | $\mathcal{O}(2; \{4, 16^2\})$ | 1048576 |
| 16 | $\mathcal{O}(1; \{2^4, 4, 16^2\})$ | 4096 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 16 | $\mathcal{O}(1; \{2, 4^3, 16^2\})$ | 16384 |
| 16 | $\mathcal{O}(1; \{2^2, 8^2, 16^2\})$ | 32768 |
| 16 | $\mathcal{O}(1; \{8, 16^4\})$ | 524288 |
| 16 | $\mathcal{O}(0; \{2^8, 4, 16^2\})$ | 16 |
| 16 | $\mathcal{O}(0; \{2^5, 4^3, 16^2\})$ | 64 |
| 16 | $\mathcal{O}(0; \{2^2, 4^5, 16^2\})$ | 256 |
| 16 | $\mathcal{O}(0; \{2^6, 8^2, 16^2\})$ | 128 |
| 16 | $\mathcal{O}(0; \{2^3, 4^2, 8^2, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{4^4, 8^2, 16^2\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{2, 4, 8^4, 16^2\})$ | 4096 |
| 16 | $\mathcal{O}(0; \{2^4, 8, 16^4\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{2, 4^2, 8, 16^4\})$ | 8192 |
| 16 | $\mathcal{O}(0; \{2^2, 16^6\})$ | 32768 |
| 18 | $\mathcal{O}(1; \{2^2, 3^2, 9^2\})$ | 7776 |
| 18 | $\mathcal{O}(1; \{2^3, 6, 9^2\})$ | 3888 |
| 18 | $\mathcal{O}(1; \{3, 6^2, 9^2\})$ | 15552 |
| 18 | $\mathcal{O}(1; \{2, 9^3, 18\})$ | 52488 |
| 18 | $\mathcal{O}(1; \{3^2, 9, 18^2\})$ | 23328 |
| 18 | $\mathcal{O}(1; \{2, 6, 9, 18^2\})$ | 11664 |
| 18 | $\mathcal{O}(0; \{2^6, 3^2, 9^2\})$ | 24 |
| 18 | $\mathcal{O}(0; \{2^2, 3^5, 9^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^7, 6, 9^2\})$ | 12 |
| 18 | $\mathcal{O}(0; \{2^3, 3^3, 6, 9^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 6^2, 9^2\})$ | 48 |
| 18 | $\mathcal{O}(0; \{3^4, 6^2, 9^2\})$ | 384 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6^3, 9^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^2, 6^4, 9^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 9^5\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{6^2, 9^5\})$ | 3240 |
| 18 | $\mathcal{O}(0; \{2^5, 9^3, 18\})$ | 162 |
| 18 | $\mathcal{O}(0; \{2, 3^3, 9^3, 18\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 6, 9^3, 18\})$ | 648 |
| 18 | $\mathcal{O}(0; \{6^3, 9^3, 18\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2^4, 3^2, 9, 18^2\})$ | 72 |
| 18 | $\mathcal{O}(0; \{3^5, 9, 18^2\})$ | 576 |
| 18 | $\mathcal{O}(0; \{2^5, 6, 9, 18^2\})$ | 36 |
| 18 | $\mathcal{O}(0; \{2, 3^3, 6, 9, 18^2\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 6^2, 9, 18^2\})$ | 144 |
| 18 | $\mathcal{O}(0; \{6^4, 9, 18^2\})$ | 288 |
| 18 | $\mathcal{O}(0; \{3, 9^4, 18^2\})$ | 10692 |
| 18 | $\mathcal{O}(0; \{2^3, 9^2, 18^3\})$ | 810 |
| 18 | $\mathcal{O}(0; \{3, 6, 9^2, 18^3\})$ | 3240 |
| 18 | $\mathcal{O}(0; \{2^2, 3^2, 18^4\})$ | 648 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 18 | $\mathcal{O}(0; \{2^3, 6, 18^4\})$ | 324 |
| 18 | $\mathcal{O}(0; \{3, 6^2, 18^4\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2, 9, 18^5\})$ | 5346 |
| 19 | $\mathcal{O}(2; \{19^2\})$ | 2345778 |
| 20 | $\mathcal{O}(1; \{2, 4^2, 5, 10\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{2^2, 5, 20^2\})$ | 9600 |
| 20 | $\mathcal{O}(1; \{10^2, 20^2\})$ | 41600 |
| 20 | $\mathcal{O}(0; \{2^2, 4^2, 5^4\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^5, 4^2, 5, 10\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^2, 4^4, 5, 10\})$ | 32 |
| 20 | $\mathcal{O}(0; \{4^2, 5^3, 10^2\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^3, 4^2, 10^3\})$ | 24 |
| 20 | $\mathcal{O}(0; \{4^4, 10^3\})$ | 96 |
| 20 | $\mathcal{O}(0; \{4, 5^5, 20\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^3, 4, 5^2, 10, 20\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4^3, 5^2, 10, 20\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2, 4, 5, 10^3, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^6, 5, 20^2\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2^3, 4^2, 5, 20^2\})$ | 96 |
| 20 | $\mathcal{O}(0; \{4^4, 5, 20^2\})$ | 384 |
| 20 | $\mathcal{O}(0; \{2, 5^3, 10, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^4, 10^2, 20^2\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 10^2, 20^2\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2, 4, 5^2, 20^3\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{2^2, 10, 20^4\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{20^6\})$ | 26240 |
| 21 | $\mathcal{O}(1; \{3, 21^3\})$ | 79380 |
| 21 | $\mathcal{O}(0; \{3^3, 7^3, 21\})$ | 1116 |
| 21 | $\mathcal{O}(0; \{3^4, 21^3\})$ | 1260 |
| 21 | $\mathcal{O}(0; \{7^2, 21^4\})$ | 39996 |
| 22 | $\mathcal{O}(1; \{2^3, 11, 22\})$ | 4840 |
| 22 | $\mathcal{O}(1; \{2, 22^3\})$ | 43560 |
| 22 | $\mathcal{O}(0; \{2^7, 11, 22\})$ | 10 |
| 22 | $\mathcal{O}(0; \{2^5, 22^3\})$ | 90 |
| 24 | $\mathcal{O}(1; \{3^2, 8^2\})$ | 4608 |
| 24 | $\mathcal{O}(1; \{2, 3, 24^2\})$ | 4608 |
| 24 | $\mathcal{O}(0; \{2^4, 3^2, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^5, 8^2\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 4^2, 8^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 3^3, 6, 8^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 6^2, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{6^4, 8^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 4, 8^2, 12\})$ | 32 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 24 | $\mathcal{O}(0; \{4, 6^2, 8^2, 12\})$ | 32 |
| 24 | $\mathcal{O}(0; \{3, 8^4, 12\})$ | 256 |
| 24 | $\mathcal{O}(0; \{2^3, 8^2, 12^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{4^2, 8^2, 12^2\})$ | 128 |
| 24 | $\mathcal{O}(0; \{3, 6, 8^2, 12^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2, 3^3, 4, 8, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 4, 6, 8, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{4, 6^3, 8, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{3, 6, 8^3, 24\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 8, 12, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^3, 6, 8, 12, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{4^2, 6, 8, 12, 24\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3, 6^2, 8, 12, 24\})$ | 80 |
| 24 | $\mathcal{O}(0; \{3, 4, 8, 12^2, 24\})$ | 192 |
| 24 | $\mathcal{O}(0; \{2, 8, 12^3, 24\})$ | 192 |
| 24 | $\mathcal{O}(0; \{2^5, 3, 24^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2, 3^4, 24^2\})$ | 88 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 4^2, 24^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 6, 24^2\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2^3, 6^2, 24^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{4^2, 6^2, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{3, 6^3, 24^2\})$ | 88 |
| 24 | $\mathcal{O}(0; \{3, 4, 8^2, 24^2\})$ | 256 |
| 24 | $\mathcal{O}(0; \{2^3, 4, 12, 24^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{4^3, 12, 24^2\})$ | 128 |
| 24 | $\mathcal{O}(0; \{3, 4, 6, 12, 24^2\})$ | 160 |
| 24 | $\mathcal{O}(0; \{2, 8^2, 12, 24^2\})$ | 256 |
| 24 | $\mathcal{O}(0; \{3^2, 12^2, 24^2\})$ | 352 |
| 24 | $\mathcal{O}(0; \{2, 6, 12^2, 24^2\})$ | 160 |
| 24 | $\mathcal{O}(0; \{3^2, 8, 24^3\})$ | 640 |
| 24 | $\mathcal{O}(0; \{2, 6, 8, 24^3\})$ | 384 |
| 24 | $\mathcal{O}(0; \{2, 4, 24^4\})$ | 768 |
| 26 | $\mathcal{O}(1; \{2^2, 13^2\})$ | 8112 |
| 26 | $\mathcal{O}(1; \{13, 26^2\})$ | 89232 |
| 26 | $\mathcal{O}(0; \{2^6, 13^2\})$ | 12 |
| 26 | $\mathcal{O}(0; \{2^4, 13, 26^2\})$ | 132 |
| 26 | $\mathcal{O}(0; \{2^2, 26^4\})$ | 1596 |
| 27 | $\mathcal{O}(0; \{9, 27^4\})$ | 26244 |
| 28 | $\mathcal{O}(1; \{4, 14, 28\})$ | 9408 |
| 28 | $\mathcal{O}(0; \{2, 4^2, 7^2, 14\})$ | 60 |
| 28 | $\mathcal{O}(0; \{2^4, 4, 14, 28\})$ | 12 |
| 28 | $\mathcal{O}(0; \{2, 4^3, 14, 28\})$ | 48 |
| 28 | $\mathcal{O}(0; \{2^2, 7^2, 28^2\})$ | 372 |

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Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 28 | $\mathcal{O}(0; \{7, 14^2, 28^2\})$ | 2220 |
| 28 | $\mathcal{O}(0; \{2^2, 4, 28^3\})$ | 240 |
| 30 | $\mathcal{O}(0; \{3^4, 10^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 6, 10^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2^2, 6^2, 10^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 5, 10, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 5, 6, 10, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{6, 10^3, 15\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^2, 5^2, 15^2\})$ | 104 |
| 30 | $\mathcal{O}(0; \{5, 10^2, 15^2\})$ | 408 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 15^3\})$ | 72 |
| 30 | $\mathcal{O}(0; \{6^2, 15^3\})$ | 120 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 10, 15, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{6^2, 10, 15, 30\})$ | 72 |
| 30 | $\mathcal{O}(0; \{5, 6, 15^2, 30\})$ | 312 |
| 30 | $\mathcal{O}(0; \{5, 6, 10, 30^2\})$ | 104 |
| 30 | $\mathcal{O}(0; \{5^2, 15, 30^2\})$ | 408 |
| 30 | $\mathcal{O}(0; \{3, 15^2, 30^2\})$ | 520 |
| 30 | $\mathcal{O}(0; \{3, 10, 30^3\})$ | 312 |
| 32 | $\mathcal{O}(0; \{2^3, 8, 32^2\})$ | 64 |
| 32 | $\mathcal{O}(0; \{4^2, 8, 32^2\})$ | 256 |
| 32 | $\mathcal{O}(0; \{2, 16^2, 32^2\})$ | 1024 |
| 33 | $\mathcal{O}(0; \{3^2, 33^3\})$ | 900 |
| 35 | $\mathcal{O}(0; \{5^3, 7^2\})$ | 72 |
| 36 | $\mathcal{O}(0; \{3, 4^2, 18^2\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2, 4, 12, 18^2\})$ | 24 |
| 36 | $\mathcal{O}(0; \{2, 4, 9, 18, 36\})$ | 36 |
| 36 | $\mathcal{O}(0; \{2, 3, 18, 36^2\})$ | 72 |
| 37 | $\mathcal{O}(2; \emptyset)$ | 1874160 |
| 38 | $\mathcal{O}(1; \{38^2\})$ | 25992 |
| 38 | $\mathcal{O}(0; \{2^4, 38^2\})$ | 18 |
| 39 | $\mathcal{O}(0; \{3^3, 13, 39\})$ | 72 |
| 39 | $\mathcal{O}(0; \{39^4\})$ | 9576 |
| 40 | $\mathcal{O}(0; \{2, 5^2, 8^2\})$ | 16 |
| 40 | $\mathcal{O}(0; \{2^2, 10, 40^2\})$ | 48 |
| 40 | $\mathcal{O}(0; \{20^2, 40^2\})$ | 832 |
| 42 | $\mathcal{O}(0; \{2^2, 7, 21^2\})$ | 60 |
| 42 | $\mathcal{O}(0; \{14^2, 21^2\})$ | 372 |
| 42 | $\mathcal{O}(0; \{2, 3^2, 21, 42\})$ | 36 |
| 42 | $\mathcal{O}(0; \{2^2, 6, 21, 42\})$ | 12 |
| 42 | $\mathcal{O}(0; \{7, 21, 42^2\})$ | 372 |
| 42 | $\mathcal{O}(0; \{6, 42^3\})$ | 180 |
| 44 | $\mathcal{O}(0; \{2^2, 4, 22, 44\})$ | 20 |

Continued on next page

Table 8 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------------|---|
| 44 | $\mathcal{O}(0; \{4, 44^3\})$ | 720 |
| 45 | $\mathcal{O}(0; \{9^2, 15^2\})$ | 96 |
| 45 | $\mathcal{O}(0; \{5, 9, 45^2\})$ | 216 |
| 48 | $\mathcal{O}(0; \{6^2, 16^2\})$ | 16 |
| 48 | $\mathcal{O}(0; \{3, 16, 24, 48\})$ | 64 |
| 48 | $\mathcal{O}(0; \{4, 6, 48^2\})$ | 32 |
| 48 | $\mathcal{O}(0; \{3, 12, 48^2\})$ | 96 |
| 52 | $\mathcal{O}(0; \{4^2, 26^2\})$ | 24 |
| 52 | $\mathcal{O}(0; \{2, 26, 52^2\})$ | 264 |
| 54 | $\mathcal{O}(0; \{2, 18, 27^2\})$ | 108 |
| 56 | $\mathcal{O}(0; \{2, 8, 28, 56\})$ | 48 |
| 56 | $\mathcal{O}(0; \{2, 7, 56^2\})$ | 120 |
| 57 | $\mathcal{O}(0; \{3^2, 57^2\})$ | 108 |
| 60 | $\mathcal{O}(0; \{3^2, 20^2\})$ | 16 |
| 66 | $\mathcal{O}(0; \{2, 3, 33, 66\})$ | 20 |
| 74 | $\mathcal{O}(1; \{2^2\})$ | 5472 |
| 76 | $\mathcal{O}(0; \{2^2, 76^2\})$ | 36 |
| 77 | $\mathcal{O}(0; \{77^3\})$ | 2700 |
| 78 | $\mathcal{O}(0; \{2^2, 39^2\})$ | 24 |
| 78 | $\mathcal{O}(0; \{39, 78^2\})$ | 264 |
| 80 | $\mathcal{O}(0; \{20, 80^2\})$ | 192 |
| 84 | $\mathcal{O}(0; \{12, 42, 84\})$ | 24 |
| 88 | $\mathcal{O}(0; \{8, 44, 88\})$ | 80 |
| 90 | $\mathcal{O}(0; \{10, 18, 45\})$ | 24 |
| 95 | $\mathcal{O}(0; \{5, 95^2\})$ | 216 |
| 114 | $\mathcal{O}(0; \{3, 114^2\})$ | 36 |
| 152 | $\mathcal{O}(0; \{2, 152^2\})$ | 72 |
| 154 | $\mathcal{O}(0; \{2, 77, 154\})$ | 60 |

Table 9: 39-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------|---|
| 1 | $\mathcal{O}(39; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(20; \emptyset)$ | 1099511627775 |
| 2 | $\mathcal{O}(19; \{2^4\})$ | 274877906944 |
| 2 | $\mathcal{O}(18; \{2^8\})$ | 68719476736 |
| 2 | $\mathcal{O}(17; \{2^{12}\})$ | 17179869184 |
| 2 | $\mathcal{O}(16; \{2^{16}\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^{20}\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{24}\})$ | 268435456 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-----------------------------------|---|
| 2 | $\mathcal{O}(13; \{2^{28}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{32}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{36}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{40}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{44}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{48}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{52}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{56}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{60}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{64}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{68}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{72}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{76}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{80}\})$ | 1 |
| 3 | $\mathcal{O}(13; \{3^2\})$ | 5083731656658 |
| 3 | $\mathcal{O}(12; \{3^5\})$ | 2824295364810 |
| 3 | $\mathcal{O}(11; \{3^8\})$ | 2698771126374 |
| 3 | $\mathcal{O}(10; \{3^{11}\})$ | 2377986961482 |
| 3 | $\mathcal{O}(9; \{3^{14}\})$ | 2116090710918 |
| 3 | $\mathcal{O}(8; \{3^{17}\})$ | 1880711240490 |
| 3 | $\mathcal{O}(7; \{3^{20}\})$ | 1671772022694 |
| 3 | $\mathcal{O}(6; \{3^{23}\})$ | 1486016387082 |
| 3 | $\mathcal{O}(5; \{3^{26}\})$ | 1320903809478 |
| 3 | $\mathcal{O}(4; \{3^{29}\})$ | 1174136680170 |
| 3 | $\mathcal{O}(3; \{3^{32}\})$ | 1043677053414 |
| 3 | $\mathcal{O}(2; \{3^{35}\})$ | 927712935882 |
| 3 | $\mathcal{O}(1; \{3^{38}\})$ | 824633720838 |
| 3 | $\mathcal{O}(0; \{3^{41}\})$ | 733007751850 |
| 4 | $\mathcal{O}(10; \{2^2\})$ | 1099510579200 |
| 4 | $\mathcal{O}(9; \{2^6\})$ | 68719214592 |
| 4 | $\mathcal{O}(9; \{2^3, 4^2\})$ | 137438953472 |
| 4 | $\mathcal{O}(9; \{4^4\})$ | 549755813888 |
| 4 | $\mathcal{O}(8; \{2^{10}\})$ | 4294901760 |
| 4 | $\mathcal{O}(8; \{2^7, 4^2\})$ | 8589934592 |
| 4 | $\mathcal{O}(8; \{2^4, 4^4\})$ | 34359738368 |
| 4 | $\mathcal{O}(8; \{2, 4^6\})$ | 137438953472 |
| 4 | $\mathcal{O}(7; \{2^{14}\})$ | 268419072 |
| 4 | $\mathcal{O}(7; \{2^{11}, 4^2\})$ | 536870912 |
| 4 | $\mathcal{O}(7; \{2^8, 4^4\})$ | 2147483648 |
| 4 | $\mathcal{O}(7; \{2^5, 4^6\})$ | 8589934592 |
| 4 | $\mathcal{O}(7; \{2^2, 4^8\})$ | 34359738368 |
| 4 | $\mathcal{O}(6; \{2^{18}\})$ | 16773120 |
| 4 | $\mathcal{O}(6; \{2^{15}, 4^2\})$ | 33554432 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------|---|
| 4 | $O(6; \{2^{12}, 4^4\})$ | 134217728 |
| 4 | $O(6; \{2^9, 4^6\})$ | 536870912 |
| 4 | $O(6; \{2^6, 4^8\})$ | 2147483648 |
| 4 | $O(6; \{2^3, 4^{10}\})$ | 8589934592 |
| 4 | $O(6; \{4^{12}\})$ | 34359738368 |
| 4 | $O(5; \{2^{22}\})$ | 1047552 |
| 4 | $O(5; \{2^{19}, 4^2\})$ | 2097152 |
| 4 | $O(5; \{2^{16}, 4^4\})$ | 8388608 |
| 4 | $O(5; \{2^{13}, 4^6\})$ | 33554432 |
| 4 | $O(5; \{2^{10}, 4^8\})$ | 134217728 |
| 4 | $O(5; \{2^7, 4^{10}\})$ | 536870912 |
| 4 | $O(5; \{2^4, 4^{12}\})$ | 2147483648 |
| 4 | $O(5; \{2, 4^{14}\})$ | 8589934592 |
| 4 | $O(4; \{2^{26}\})$ | 65280 |
| 4 | $O(4; \{2^{23}, 4^2\})$ | 131072 |
| 4 | $O(4; \{2^{20}, 4^4\})$ | 524288 |
| 4 | $O(4; \{2^{17}, 4^6\})$ | 2097152 |
| 4 | $O(4; \{2^{14}, 4^8\})$ | 8388608 |
| 4 | $O(4; \{2^{11}, 4^{10}\})$ | 33554432 |
| 4 | $O(4; \{2^8, 4^{12}\})$ | 134217728 |
| 4 | $O(4; \{2^5, 4^{14}\})$ | 536870912 |
| 4 | $O(4; \{2^2, 4^{16}\})$ | 2147483648 |
| 4 | $O(3; \{2^{30}\})$ | 4032 |
| 4 | $O(3; \{2^{27}, 4^2\})$ | 8192 |
| 4 | $O(3; \{2^{24}, 4^4\})$ | 32768 |
| 4 | $O(3; \{2^{21}, 4^6\})$ | 131072 |
| 4 | $O(3; \{2^{18}, 4^8\})$ | 524288 |
| 4 | $O(3; \{2^{15}, 4^{10}\})$ | 2097152 |
| 4 | $O(3; \{2^{12}, 4^{12}\})$ | 8388608 |
| 4 | $O(3; \{2^9, 4^{14}\})$ | 33554432 |
| 4 | $O(3; \{2^6, 4^{16}\})$ | 134217728 |
| 4 | $O(3; \{2^3, 4^{18}\})$ | 536870912 |
| 4 | $O(3; \{4^{20}\})$ | 2147483648 |
| 4 | $O(2; \{2^{34}\})$ | 240 |
| 4 | $O(2; \{2^{31}, 4^2\})$ | 512 |
| 4 | $O(2; \{2^{28}, 4^4\})$ | 2048 |
| 4 | $O(2; \{2^{25}, 4^6\})$ | 8192 |
| 4 | $O(2; \{2^{22}, 4^8\})$ | 32768 |
| 4 | $O(2; \{2^{19}, 4^{10}\})$ | 131072 |
| 4 | $O(2; \{2^{16}, 4^{12}\})$ | 524288 |
| 4 | $O(2; \{2^{13}, 4^{14}\})$ | 2097152 |
| 4 | $O(2; \{2^{10}, 4^{16}\})$ | 8388608 |
| 4 | $O(2; \{2^7, 4^{18}\})$ | 33554432 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------|---|
| 4 | $O(2; \{2^4, 4^{20}\})$ | 134217728 |
| 4 | $O(2; \{2, 4^{22}\})$ | 536870912 |
| 4 | $O(1; \{2^{38}\})$ | 12 |
| 4 | $O(1; \{2^{35}, 4^2\})$ | 32 |
| 4 | $O(1; \{2^{32}, 4^4\})$ | 128 |
| 4 | $O(1; \{2^{29}, 4^6\})$ | 512 |
| 4 | $O(1; \{2^{26}, 4^8\})$ | 2048 |
| 4 | $O(1; \{2^{23}, 4^{10}\})$ | 8192 |
| 4 | $O(1; \{2^{20}, 4^{12}\})$ | 32768 |
| 4 | $O(1; \{2^{17}, 4^{14}\})$ | 131072 |
| 4 | $O(1; \{2^{14}, 4^{16}\})$ | 524288 |
| 4 | $O(1; \{2^{11}, 4^{18}\})$ | 2097152 |
| 4 | $O(1; \{2^8, 4^{20}\})$ | 8388608 |
| 4 | $O(1; \{2^5, 4^{22}\})$ | 33554432 |
| 4 | $O(1; \{2^2, 4^{24}\})$ | 134217728 |
| 4 | $O(0; \{2^{39}, 4^2\})$ | 2 |
| 4 | $O(0; \{2^{36}, 4^4\})$ | 8 |
| 4 | $O(0; \{2^{33}, 4^6\})$ | 32 |
| 4 | $O(0; \{2^{30}, 4^8\})$ | 128 |
| 4 | $O(0; \{2^{27}, 4^{10}\})$ | 512 |
| 4 | $O(0; \{2^{24}, 4^{12}\})$ | 2048 |
| 4 | $O(0; \{2^{21}, 4^{14}\})$ | 8192 |
| 4 | $O(0; \{2^{18}, 4^{16}\})$ | 32768 |
| 4 | $O(0; \{2^{15}, 4^{18}\})$ | 131072 |
| 4 | $O(0; \{2^{12}, 4^{20}\})$ | 524288 |
| 4 | $O(0; \{2^9, 4^{22}\})$ | 2097152 |
| 4 | $O(0; \{2^6, 4^{24}\})$ | 8388608 |
| 4 | $O(0; \{2^3, 4^{26}\})$ | 33554432 |
| 4 | $O(0; \{4^{28}\})$ | 134217728 |
| 5 | $O(7; \{5^4\})$ | 317382812500 |
| 5 | $O(5; \{5^9\})$ | 511992187500 |
| 5 | $O(3; \{5^{14}\})$ | 838860812500 |
| 5 | $O(1; \{5^{19}\})$ | 1374389534700 |
| 6 | $O(6; \{3^4\})$ | 13057505370 |
| 6 | $O(6; \{2, 3^2, 6\})$ | 4353564672 |
| 6 | $O(6; \{2^2, 6^2\})$ | 4353564672 |
| 6 | $O(5; \{2^4, 3^4\})$ | 362797056 |
| 6 | $O(5; \{3^7\})$ | 2537099334 |
| 6 | $O(5; \{2^5, 3^2, 6\})$ | 120932352 |
| 6 | $O(5; \{2, 3^5, 6\})$ | 1330255872 |
| 6 | $O(5; \{2^6, 6^2\})$ | 120932352 |
| 6 | $O(5; \{2^2, 3^3, 6^2\})$ | 604661760 |
| 6 | $O(5; \{2^3, 3, 6^3\})$ | 362797056 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(5; \{3^2, 6^4\})$ | 1330255872 |
| 6 | $\mathcal{O}(5; \{2, 6^5\})$ | 604661760 |
| 6 | $\mathcal{O}(4; \{2^8, 3^4\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2^4, 3^7\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{3^{10}\})$ | 572184810 |
| 6 | $\mathcal{O}(4; \{2^9, 3^2, 6\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^5, 3^5, 6\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2, 3^8, 6\})$ | 285534720 |
| 6 | $\mathcal{O}(4; \{2^{10}, 6^2\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^6, 3^3, 6^2\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^2, 3^6, 6^2\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2^7, 3, 6^3\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2^3, 3^4, 6^3\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^4, 3^2, 6^4\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{3^5, 6^4\})$ | 285534720 |
| 6 | $\mathcal{O}(4; \{2^5, 6^5\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2, 3^3, 6^5\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2^2, 3, 6^6\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{6^8\})$ | 144446976 |
| 6 | $\mathcal{O}(3; \{2^{12}, 3^4\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^8, 3^7\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^4, 3^{10}\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{3^{13}\})$ | 125380710 |
| 6 | $\mathcal{O}(3; \{2^{13}, 3^2, 6\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^9, 3^5, 6\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^5, 3^8, 6\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{2, 3^{11}, 6\})$ | 63732096 |
| 6 | $\mathcal{O}(3; \{2^{14}, 6^2\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^{10}, 3^3, 6^2\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^6, 3^6, 6^2\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2^2, 3^9, 6^2\})$ | 31819392 |
| 6 | $\mathcal{O}(3; \{2^{11}, 3, 6^3\})$ | 279936 |
| 6 | $\mathcal{O}(3; \{2^7, 3^4, 6^3\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^3, 3^7, 6^3\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^8, 3^2, 6^4\})$ | 1026432 |
| 6 | $\mathcal{O}(3; \{2^4, 3^5, 6^4\})$ | 7931520 |
| 6 | $\mathcal{O}(3; \{3^8, 6^4\})$ | 63732096 |
| 6 | $\mathcal{O}(3; \{2^9, 6^5\})$ | 466560 |
| 6 | $\mathcal{O}(3; \{2^5, 3^3, 6^5\})$ | 4012416 |
| 6 | $\mathcal{O}(3; \{2, 3^6, 6^5\})$ | 31819392 |
| 6 | $\mathcal{O}(3; \{2^6, 3, 6^6\})$ | 1959552 |
| 6 | $\mathcal{O}(3; \{2^2, 3^4, 6^6\})$ | 15956352 |
| 6 | $\mathcal{O}(3; \{2^3, 3^2, 6^7\})$ | 7931520 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------|---|
| 6 | $O(3; \{2^4, 6^8\})$ | 4012416 |
| 6 | $O(3; \{3^3, 6^8\})$ | 31819392 |
| 6 | $O(3; \{2, 3, 6^9\})$ | 15956352 |
| 6 | $O(2; \{2^{16}, 3^4\})$ | 7776 |
| 6 | $O(2; \{2^{12}, 3^7\})$ | 54432 |
| 6 | $O(2; \{2^8, 3^{10}\})$ | 443232 |
| 6 | $O(2; \{2^4, 3^{13}\})$ | 3538080 |
| 6 | $O(2; \{3^{16}\})$ | 26542890 |
| 6 | $O(2; \{2^{17}, 3^2, 6\})$ | 2592 |
| 6 | $O(2; \{2^{13}, 3^5, 6\})$ | 28512 |
| 6 | $O(2; \{2^9, 3^8, 6\})$ | 220320 |
| 6 | $O(2; \{2^5, 3^{11}, 6\})$ | 1770336 |
| 6 | $O(2; \{2, 3^{14}, 6\})$ | 14154912 |
| 6 | $O(2; \{2^{18}, 6^2\})$ | 2592 |
| 6 | $O(2; \{2^{14}, 3^3, 6^2\})$ | 12960 |
| 6 | $O(2; \{2^{10}, 3^6, 6^2\})$ | 111456 |
| 6 | $O(2; \{2^6, 3^9, 6^2\})$ | 883872 |
| 6 | $O(2; \{2^2, 3^{12}, 6^2\})$ | 7078752 |
| 6 | $O(2; \{2^{15}, 3, 6^3\})$ | 7776 |
| 6 | $O(2; \{2^{11}, 3^4, 6^3\})$ | 54432 |
| 6 | $O(2; \{2^7, 3^7, 6^3\})$ | 443232 |
| 6 | $O(2; \{2^3, 3^{10}, 6^3\})$ | 3538080 |
| 6 | $O(2; \{2^{12}, 3^2, 6^4\})$ | 28512 |
| 6 | $O(2; \{2^8, 3^5, 6^4\})$ | 220320 |
| 6 | $O(2; \{2^4, 3^8, 6^4\})$ | 1770336 |
| 6 | $O(2; \{3^{11}, 6^4\})$ | 14154912 |
| 6 | $O(2; \{2^{13}, 6^5\})$ | 12960 |
| 6 | $O(2; \{2^9, 3^3, 6^5\})$ | 111456 |
| 6 | $O(2; \{2^5, 3^6, 6^5\})$ | 883872 |
| 6 | $O(2; \{2, 3^9, 6^5\})$ | 7078752 |
| 6 | $O(2; \{2^{10}, 3, 6^6\})$ | 54432 |
| 6 | $O(2; \{2^6, 3^4, 6^6\})$ | 443232 |
| 6 | $O(2; \{2^2, 3^7, 6^6\})$ | 3538080 |
| 6 | $O(2; \{2^7, 3^2, 6^7\})$ | 220320 |
| 6 | $O(2; \{2^3, 3^5, 6^7\})$ | 1770336 |
| 6 | $O(2; \{2^8, 6^8\})$ | 111456 |
| 6 | $O(2; \{2^4, 3^3, 6^8\})$ | 883872 |
| 6 | $O(2; \{3^6, 6^8\})$ | 7078752 |
| 6 | $O(2; \{2^5, 3, 6^9\})$ | 443232 |
| 6 | $O(2; \{2, 3^4, 6^9\})$ | 3538080 |
| 6 | $O(2; \{2^2, 3^2, 6^{10}\})$ | 1770336 |
| 6 | $O(2; \{2^3, 6^{11}\})$ | 883872 |
| 6 | $O(2; \{3, 6^{12}\})$ | 3538080 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 6 | $\mathcal{O}(1; \{2^{20}, 3^4\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3^7\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^{10}\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^8, 3^{13}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^4, 3^{16}\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{3^{19}\})$ | 4718574 |
| 6 | $\mathcal{O}(1; \{2^{21}, 3^2, 6\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{17}, 3^5, 6\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^8, 6\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^9, 3^{11}, 6\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^5, 3^{14}, 6\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2, 3^{17}, 6\})$ | 3145752 |
| 6 | $\mathcal{O}(1; \{2^{22}, 6^2\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{18}, 3^3, 6^2\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3^6, 6^2\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^9, 6^2\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^6, 3^{12}, 6^2\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{15}, 6^2\})$ | 1572840 |
| 6 | $\mathcal{O}(1; \{2^{19}, 3, 6^3\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{15}, 3^4, 6^3\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^7, 6^3\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^7, 3^{10}, 6^3\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^3, 3^{13}, 6^3\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3^2, 6^4\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^5, 6^4\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^8, 3^8, 6^4\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^4, 3^{11}, 6^4\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{3^{14}, 6^4\})$ | 3145752 |
| 6 | $\mathcal{O}(1; \{2^{17}, 6^5\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{13}, 3^3, 6^5\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^9, 3^6, 6^5\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^5, 3^9, 6^5\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2, 3^{12}, 6^5\})$ | 1572840 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3, 6^6\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^4, 6^6\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^6, 3^7, 6^6\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{10}, 6^6\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^2, 6^7\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^7, 3^5, 6^7\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^3, 3^8, 6^7\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^{12}, 6^8\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^8, 3^3, 6^8\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^4, 3^6, 6^8\})$ | 196632 |

Continued on next page

Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(1; \{3^9, 6^8\})$ | 1572840 |
| 6 | $\mathcal{O}(1; \{2^9, 3, 6^9\})$ | 12312 |
| 6 | $\mathcal{O}(1; \{2^5, 3^4, 6^9\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{2, 3^7, 6^9\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2^6, 3^2, 6^{10}\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^2, 3^5, 6^{10}\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^7, 6^{11}\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^3, 3^3, 6^{11}\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^4, 3, 6^{12}\})$ | 98280 |
| 6 | $\mathcal{O}(1; \{3^4, 6^{12}\})$ | 786456 |
| 6 | $\mathcal{O}(1; \{2, 3^2, 6^{13}\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^2, 6^{14}\})$ | 196632 |
| 6 | $\mathcal{O}(0; \{2^{24}, 3^4\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^7\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^{10}\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^{13}\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{16}\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{19}\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{25}, 3^2, 6\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{21}, 3^5, 6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^8, 6\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^{11}, 6\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^9, 3^{14}, 6\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{17}, 6\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2, 3^{20}, 6\})$ | 699050 |
| 6 | $\mathcal{O}(0; \{2^{26}, 6^2\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3^3, 6^2\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^6, 6^2\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^9, 6^2\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{12}, 6^2\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{15}, 6^2\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{18}, 6^2\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{23}, 3, 6^3\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^4, 6^3\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^7, 6^3\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^{10}, 6^3\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{13}, 6^3\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{16}, 6^3\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^2, 6^4\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^5, 6^4\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^8, 6^4\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{11}, 6^4\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{14}, 6^4\})$ | 87382 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|---------------------------------|---|
| 6 | $O(0; \{3^{17}, 6^4\})$ | 699050 |
| 6 | $O(0; \{2^{21}, 6^5\})$ | 10 |
| 6 | $O(0; \{2^{17}, 3^3, 6^5\})$ | 86 |
| 6 | $O(0; \{2^{13}, 3^6, 6^5\})$ | 682 |
| 6 | $O(0; \{2^9, 3^9, 6^5\})$ | 5462 |
| 6 | $O(0; \{2^5, 3^{12}, 6^5\})$ | 43690 |
| 6 | $O(0; \{2, 3^{15}, 6^5\})$ | 349526 |
| 6 | $O(0; \{2^{18}, 3, 6^6\})$ | 42 |
| 6 | $O(0; \{2^{14}, 3^4, 6^6\})$ | 342 |
| 6 | $O(0; \{2^{10}, 3^7, 6^6\})$ | 2730 |
| 6 | $O(0; \{2^6, 3^{10}, 6^6\})$ | 21846 |
| 6 | $O(0; \{2^2, 3^{13}, 6^6\})$ | 174762 |
| 6 | $O(0; \{2^{15}, 3^2, 6^7\})$ | 170 |
| 6 | $O(0; \{2^{11}, 3^5, 6^7\})$ | 1366 |
| 6 | $O(0; \{2^7, 3^8, 6^7\})$ | 10922 |
| 6 | $O(0; \{2^3, 3^{11}, 6^7\})$ | 87382 |
| 6 | $O(0; \{2^{16}, 6^8\})$ | 86 |
| 6 | $O(0; \{2^{12}, 3^3, 6^8\})$ | 682 |
| 6 | $O(0; \{2^8, 3^6, 6^8\})$ | 5462 |
| 6 | $O(0; \{2^4, 3^9, 6^8\})$ | 43690 |
| 6 | $O(0; \{3^{12}, 6^8\})$ | 349526 |
| 6 | $O(0; \{2^{13}, 3, 6^9\})$ | 342 |
| 6 | $O(0; \{2^9, 3^4, 6^9\})$ | 2730 |
| 6 | $O(0; \{2^5, 3^7, 6^9\})$ | 21846 |
| 6 | $O(0; \{2, 3^{10}, 6^9\})$ | 174762 |
| 6 | $O(0; \{2^{10}, 3^2, 6^{10}\})$ | 1366 |
| 6 | $O(0; \{2^6, 3^5, 6^{10}\})$ | 10922 |
| 6 | $O(0; \{2^2, 3^8, 6^{10}\})$ | 87382 |
| 6 | $O(0; \{2^{11}, 6^{11}\})$ | 682 |
| 6 | $O(0; \{2^7, 3^3, 6^{11}\})$ | 5462 |
| 6 | $O(0; \{2^3, 3^6, 6^{11}\})$ | 43690 |
| 6 | $O(0; \{2^8, 3, 6^{12}\})$ | 2730 |
| 6 | $O(0; \{2^4, 3^4, 6^{12}\})$ | 21846 |
| 6 | $O(0; \{3^7, 6^{12}\})$ | 174762 |
| 6 | $O(0; \{2^5, 3^2, 6^{13}\})$ | 10922 |
| 6 | $O(0; \{2, 3^5, 6^{13}\})$ | 87382 |
| 6 | $O(0; \{2^6, 6^{14}\})$ | 5462 |
| 6 | $O(0; \{2^2, 3^3, 6^{14}\})$ | 43690 |
| 6 | $O(0; \{2^3, 3, 6^{15}\})$ | 21846 |
| 6 | $O(0; \{3^2, 6^{16}\})$ | 87382 |
| 6 | $O(0; \{2, 6^{17}\})$ | 43690 |
| 7 | $O(3; \{7^8\})$ | 28229406954 |
| 7 | $O(0; \{7^{15}\})$ | 67169283510 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(5; \{4^2\})$ | 2145386496 |
| 8 | $\mathcal{O}(4; \{2^4, 4^2\})$ | 33423360 |
| 8 | $\mathcal{O}(4; \{2, 4^4\})$ | 133693440 |
| 8 | $\mathcal{O}(4; \{2^2, 4, 8^2\})$ | 134217728 |
| 8 | $\mathcal{O}(4; \{8^4\})$ | 1073741824 |
| 8 | $\mathcal{O}(3; \{2^8, 4^2\})$ | 516096 |
| 8 | $\mathcal{O}(3; \{2^5, 4^4\})$ | 2064384 |
| 8 | $\mathcal{O}(3; \{2^2, 4^6\})$ | 8257536 |
| 8 | $\mathcal{O}(3; \{2^6, 4, 8^2\})$ | 2097152 |
| 8 | $\mathcal{O}(3; \{2^3, 4^3, 8^2\})$ | 8388608 |
| 8 | $\mathcal{O}(3; \{4^5, 8^2\})$ | 33554432 |
| 8 | $\mathcal{O}(3; \{2^4, 8^4\})$ | 16777216 |
| 8 | $\mathcal{O}(3; \{2, 4^2, 8^4\})$ | 67108864 |
| 8 | $\mathcal{O}(2; \{2^{12}, 4^2\})$ | 7680 |
| 8 | $\mathcal{O}(2; \{2^9, 4^4\})$ | 30720 |
| 8 | $\mathcal{O}(2; \{2^6, 4^6\})$ | 122880 |
| 8 | $\mathcal{O}(2; \{2^3, 4^8\})$ | 491520 |
| 8 | $\mathcal{O}(2; \{4^{10}\})$ | 1966080 |
| 8 | $\mathcal{O}(2; \{2^{10}, 4, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(2; \{2^7, 4^3, 8^2\})$ | 131072 |
| 8 | $\mathcal{O}(2; \{2^4, 4^5, 8^2\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{2, 4^7, 8^2\})$ | 2097152 |
| 8 | $\mathcal{O}(2; \{2^8, 8^4\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2^5, 4^2, 8^4\})$ | 1048576 |
| 8 | $\mathcal{O}(2; \{2^2, 4^4, 8^4\})$ | 4194304 |
| 8 | $\mathcal{O}(2; \{2^3, 4, 8^6\})$ | 8388608 |
| 8 | $\mathcal{O}(2; \{4^3, 8^6\})$ | 33554432 |
| 8 | $\mathcal{O}(2; \{2, 8^8\})$ | 67108864 |
| 8 | $\mathcal{O}(1; \{2^{16}, 4^2\})$ | 96 |
| 8 | $\mathcal{O}(1; \{2^{13}, 4^4\})$ | 384 |
| 8 | $\mathcal{O}(1; \{2^{10}, 4^6\})$ | 1536 |
| 8 | $\mathcal{O}(1; \{2^7, 4^8\})$ | 6144 |
| 8 | $\mathcal{O}(1; \{2^4, 4^{10}\})$ | 24576 |
| 8 | $\mathcal{O}(1; \{2, 4^{12}\})$ | 98304 |
| 8 | $\mathcal{O}(1; \{2^{14}, 4, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(1; \{2^{11}, 4^3, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(1; \{2^8, 4^5, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^5, 4^7, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2^2, 4^9, 8^2\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^{12}, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^9, 4^2, 8^4\})$ | 16384 |
| 8 | $\mathcal{O}(1; \{2^6, 4^4, 8^4\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^3, 4^6, 8^4\})$ | 262144 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(1; \{4^8, 8^4\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{2^7, 4, 8^6\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^4, 4^3, 8^6\})$ | 524288 |
| 8 | $\mathcal{O}(1; \{2, 4^5, 8^6\})$ | 2097152 |
| 8 | $\mathcal{O}(1; \{2^5, 8^8\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{2^2, 4^2, 8^8\})$ | 4194304 |
| 8 | $\mathcal{O}(1; \{4, 8^{10}\})$ | 33554432 |
| 8 | $\mathcal{O}(0; \{2^{18}, 4, 8^2\})$ | 8 |
| 8 | $\mathcal{O}(0; \{2^{15}, 4^3, 8^2\})$ | 32 |
| 8 | $\mathcal{O}(0; \{2^{12}, 4^5, 8^2\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^9, 4^7, 8^2\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^6, 4^9, 8^2\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^3, 4^{11}, 8^2\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{4^{13}, 8^2\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^{16}, 8^4\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^{13}, 4^2, 8^4\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^{10}, 4^4, 8^4\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^7, 4^6, 8^4\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^4, 4^8, 8^4\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2, 4^{10}, 8^4\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{2^{11}, 4, 8^6\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^8, 4^3, 8^6\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^5, 4^5, 8^6\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^2, 4^7, 8^6\})$ | 131072 |
| 8 | $\mathcal{O}(0; \{2^9, 8^8\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^6, 4^2, 8^8\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{2^3, 4^4, 8^8\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{4^6, 8^8\})$ | 1048576 |
| 8 | $\mathcal{O}(0; \{2^4, 4, 8^{10}\})$ | 524288 |
| 8 | $\mathcal{O}(0; \{2, 4^3, 8^{10}\})$ | 2097152 |
| 8 | $\mathcal{O}(0; \{2^2, 8^{12}\})$ | 4194304 |
| 9 | $\mathcal{O}(4; \{3, 9^2\})$ | 516560652 |
| 9 | $\mathcal{O}(3; \{3^4, 9^2\})$ | 51018336 |
| 9 | $\mathcal{O}(3; \{9^5\})$ | 430467210 |
| 9 | $\mathcal{O}(2; \{3^7, 9^2\})$ | 5038848 |
| 9 | $\mathcal{O}(2; \{3^3, 9^5\})$ | 42515280 |
| 9 | $\mathcal{O}(1; \{3^{10}, 9^2\})$ | 497664 |
| 9 | $\mathcal{O}(1; \{3^6, 9^5\})$ | 4199040 |
| 9 | $\mathcal{O}(1; \{3^2, 9^8\})$ | 60938568 |
| 9 | $\mathcal{O}(0; \{3^{13}, 9^2\})$ | 49152 |
| 9 | $\mathcal{O}(0; \{3^9, 9^5\})$ | 414720 |
| 9 | $\mathcal{O}(0; \{3^5, 9^8\})$ | 6018624 |
| 9 | $\mathcal{O}(0; \{3, 9^{11}\})$ | 80542836 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---------------------------------------|---|
| 10 | $\mathcal{O}(4; \{5^2\})$ | 398437500 |
| 10 | $\mathcal{O}(3; \{2^4, 5^2\})$ | 4000000 |
| 10 | $\mathcal{O}(3; \{2^2, 5, 10^2\})$ | 12000000 |
| 10 | $\mathcal{O}(3; \{10^4\})$ | 52000000 |
| 10 | $\mathcal{O}(2; \{2^8, 5^2\})$ | 40000 |
| 10 | $\mathcal{O}(2; \{5^7\})$ | 30712500 |
| 10 | $\mathcal{O}(2; \{2^3, 5^4, 10\})$ | 2040000 |
| 10 | $\mathcal{O}(2; \{2^6, 5, 10^2\})$ | 120000 |
| 10 | $\mathcal{O}(2; \{2, 5^3, 10^3\})$ | 8200000 |
| 10 | $\mathcal{O}(2; \{2^4, 10^4\})$ | 520000 |
| 10 | $\mathcal{O}(1; \{2^{12}, 5^2\})$ | 400 |
| 10 | $\mathcal{O}(1; \{2^4, 5^7\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^7, 5^4, 10\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2^{10}, 5, 10^2\})$ | 1200 |
| 10 | $\mathcal{O}(1; \{2^2, 5^6, 10^2\})$ | 1310800 |
| 10 | $\mathcal{O}(1; \{2^5, 5^3, 10^3\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^8, 10^4\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{5^5, 10^4\})$ | 5242800 |
| 10 | $\mathcal{O}(1; \{2^3, 5^2, 10^5\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2, 5, 10^7\})$ | 1310800 |
| 10 | $\mathcal{O}(0; \{2^{16}, 5^2\})$ | 4 |
| 10 | $\mathcal{O}(0; \{2^8, 5^7\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^{11}, 5^4, 10\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2^3, 5^9, 10\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^{14}, 5, 10^2\})$ | 12 |
| 10 | $\mathcal{O}(0; \{2^6, 5^6, 10^2\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^9, 5^3, 10^3\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2, 5^8, 10^3\})$ | 838860 |
| 10 | $\mathcal{O}(0; \{2^{12}, 10^4\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^4, 5^5, 10^4\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^7, 5^2, 10^5\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^2, 5^4, 10^6\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^5, 5, 10^7\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{5^3, 10^8\})$ | 838860 |
| 10 | $\mathcal{O}(0; \{2^3, 10^9\})$ | 52428 |
| 12 | $\mathcal{O}(3; \{2^2, 3^2\})$ | 5878656 |
| 12 | $\mathcal{O}(3; \{3, 6^2\})$ | 5878656 |
| 12 | $\mathcal{O}(3; \{3, 4, 12\})$ | 11943936 |
| 12 | $\mathcal{O}(3; \{2, 12^2\})$ | 11943936 |
| 12 | $\mathcal{O}(2; \{2^6, 3^2\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{2^2, 3^5\})$ | 194400 |
| 12 | $\mathcal{O}(2; \{2^3, 3^2, 4^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3^2, 4^4\})$ | 331776 |

Continued on next page

Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(2; \{2^3, 3^3, 6\})$ | 116640 |
| 12 | $\mathcal{O}(2; \{3^3, 4^2, 6\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^4, 3, 6^2\})$ | 38880 |
| 12 | $\mathcal{O}(2; \{3^4, 6^2\})$ | 427680 |
| 12 | $\mathcal{O}(2; \{2, 3, 4^2, 6^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 3^2, 6^3\})$ | 194400 |
| 12 | $\mathcal{O}(2; \{2^2, 6^4\})$ | 116640 |
| 12 | $\mathcal{O}(2; \{2^4, 3, 4, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3^4, 4, 12\})$ | 414720 |
| 12 | $\mathcal{O}(2; \{2, 3, 4^3, 12\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{2, 3^2, 4, 6, 12\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^2, 4, 6^2, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^5, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2, 3^3, 12^2\})$ | 414720 |
| 12 | $\mathcal{O}(2; \{2^2, 4^2, 12^2\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{2^2, 3, 6, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{6^3, 12^2\})$ | 414720 |
| 12 | $\mathcal{O}(2; \{4, 6, 12^3\})$ | 995328 |
| 12 | $\mathcal{O}(2; \{3, 12^4\})$ | 1658880 |
| 12 | $\mathcal{O}(1; \{2^{10}, 3^2\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^6, 3^5\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{2^2, 3^8\})$ | 9288 |
| 12 | $\mathcal{O}(1; \{2^7, 3^2, 4^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^3, 3^5, 4^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 4^4\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^5, 4^4\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^6\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^7, 3^3, 6\})$ | 648 |
| 12 | $\mathcal{O}(1; \{2^3, 3^6, 6\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2^4, 3^3, 4^2, 6\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^6, 4^2, 6\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4^4, 6\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^8, 3, 6^2\})$ | 216 |
| 12 | $\mathcal{O}(1; \{2^4, 3^4, 6^2\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{3^7, 6^2\})$ | 18360 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 4^2, 6^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 4^2, 6^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^4, 6^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^5, 3^2, 6^3\})$ | 1080 |
| 12 | $\mathcal{O}(1; \{2, 3^5, 6^3\})$ | 9288 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4^2, 6^3\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^6, 6^4\})$ | 648 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 6^4\})$ | 4536 |

Continued on next page

Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2^3, 4^2, 6^4\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{4^4, 6^4\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 6^5\})$ | 2376 |
| 12 | $\mathcal{O}(1; \{3, 4^2, 6^5\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{3^2, 6^6\})$ | 9288 |
| 12 | $\mathcal{O}(1; \{2, 6^7\})$ | 4536 |
| 12 | $\mathcal{O}(1; \{2^8, 3, 4, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^4, 3^4, 4, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3^7, 4, 12\})$ | 24768 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 4^3, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 4^3, 12\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^5, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^5, 3^2, 4, 6, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2, 3^5, 4, 6, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4^3, 6, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^6, 4, 6^2, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 4, 6^2, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^3, 4^3, 6^2, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{4^5, 6^2, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4, 6^3, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3, 4^3, 6^3, 12\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{3^2, 4, 6^4, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 4, 6^5, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^9, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^5, 3^3, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2, 3^6, 12^2\})$ | 24768 |
| 12 | $\mathcal{O}(1; \{2^6, 4^2, 12^2\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 3^3, 4^2, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^3, 4^4, 12^2\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{4^6, 12^2\})$ | 36864 |
| 12 | $\mathcal{O}(1; \{2^6, 3, 6, 12^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2^2, 3^4, 6, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^3, 3, 4^2, 6, 12^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{3, 4^4, 6, 12^2\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 6^2, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{3^2, 4^2, 6^2, 12^2\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^4, 6^3, 12^2\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3^3, 6^3, 12^2\})$ | 24768 |
| 12 | $\mathcal{O}(1; \{2, 4^2, 6^3, 12^2\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2, 3, 6^4, 12^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^3, 3^2, 4, 12^3\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{3^2, 4^3, 12^3\})$ | 46080 |
| 12 | $\mathcal{O}(1; \{2^4, 4, 6, 12^3\})$ | 6912 |

Continued on next page

Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{3^3, 4, 6, 12^3\})$ | 48384 |
| 12 | $\mathcal{O}(1; \{2, 4^3, 6, 12^3\})$ | 27648 |
| 12 | $\mathcal{O}(1; \{2, 3, 4, 6^2, 12^3\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 12^4\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{3^4, 12^4\})$ | 99072 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^2, 12^4\})$ | 46080 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 6, 12^4\})$ | 48384 |
| 12 | $\mathcal{O}(1; \{2^2, 6^2, 12^4\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2^2, 4, 12^5\})$ | 46080 |
| 12 | $\mathcal{O}(1; \{6, 12^6\})$ | 193536 |
| 12 | $\mathcal{O}(0; \{2^{11}, 3^2, 4^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^7, 3^5, 4^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^8, 4^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^8, 3^2, 4^4\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^4, 3^5, 4^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^8, 4^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^6\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^8\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^8, 3^3, 4^2, 6\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^6, 4^2, 6\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^9, 4^2, 6\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4^4, 6\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4^4, 6\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^6, 6\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^9, 3, 4^2, 6^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 4^2, 6^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 4^2, 6^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^4, 6^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^4, 6^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^6, 6^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3, 4^8, 6^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4^2, 6^3\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4^2, 6^3\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^4, 6^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^2, 4^6, 6^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^7, 4^2, 6^4\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^2, 6^4\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^4, 4^4, 6^4\})$ | 48 |
| 12 | $\mathcal{O}(0; \{3^3, 4^4, 6^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 4^6, 6^4\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^2, 6^5\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^4, 4^2, 6^5\})$ | 340 |

Continued on next page

Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2, 3, 4^4, 6^5\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^2, 6^6\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^2, 4^2, 6^7\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^{12}, 3, 4, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^8, 3^4, 4, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^4, 3^7, 4, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3^{10}, 4, 12\})$ | 1364 |
| 12 | $\mathcal{O}(0; \{2^9, 3, 4^3, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 4^3, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 4^3, 12\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^5, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^5, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^7, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{3, 4^9, 12\})$ | 1024 |
| 12 | $\mathcal{O}(0; \{2^9, 3^2, 4, 6, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^5, 3^5, 4, 6, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^8, 4, 6, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4^3, 6, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4^3, 6, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^5, 6, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^2, 4^7, 6, 12\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^{10}, 4, 6^2, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 4, 6^2, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 4, 6^2, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^7, 4^3, 6^2, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^3, 6^2, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^4, 4^5, 6^2, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{3^3, 4^5, 6^2, 12\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 4^7, 6^2, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4, 6^3, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4, 6^3, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^3, 6^3, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^4, 4^3, 6^3, 12\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^5, 6^3, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4, 6^4, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^5, 4, 6^4, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^3, 6^4, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^5, 4, 6^5, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4, 6^5, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^2, 4^3, 6^5, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4, 6^6, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{4, 6^8, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^{13}, 12^2\})$ | 4 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^9, 3^3, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^5, 3^6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2, 3^9, 12^2\})$ | 1364 |
| 12 | $\mathcal{O}(0; \{2^{10}, 4^2, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 4^2, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 4^2, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^7, 4^4, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^4, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^4, 4^6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{3^3, 4^6, 12^2\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2, 4^8, 12^2\})$ | 1024 |
| 12 | $\mathcal{O}(0; \{2^{10}, 3, 6, 12^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^6, 3^4, 6, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^2, 3^7, 6, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4^2, 6, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4^2, 6, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^4, 6, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^4, 4^4, 6, 12^2\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^6, 6, 12^2\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 6^2, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 6^2, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^2, 6^2, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^5, 4^2, 6^2, 12^2\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^4, 6^2, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^8, 6^3, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 6^3, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3^6, 6^3, 12^2\})$ | 1364 |
| 12 | $\mathcal{O}(0; \{2^5, 4^2, 6^3, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^2, 6^3, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^2, 4^4, 6^3, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 6^4, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 6^4, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^2, 6^4, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 6^5, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^3, 6^6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{4^2, 6^6, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{3, 6^7, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 4, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 4, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^3, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3^5, 4^3, 12^3\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^5, 12^3\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^8, 4, 6, 12^3\})$ | 48 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 4, 6, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^6, 4, 6, 12^3\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2^5, 4^3, 6, 12^3\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^3, 6, 12^3\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^2, 4^5, 6, 12^3\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4, 6^2, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4, 6^2, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^3, 6^2, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4, 6^3, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 4, 6^4, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{4^3, 6^4, 12^3\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3, 4, 6^5, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^8, 3, 12^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^4, 3^4, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{3^7, 12^4\})$ | 5456 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^2, 12^4\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^2, 12^4\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^4, 12^4\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 6, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 6, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^2, 6, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^6, 6^2, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 6^2, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^3, 4^2, 6^2, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{4^4, 6^2, 12^4\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 6^3, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{3, 4^2, 6^3, 12^4\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{3^2, 6^4, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2, 6^5, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^6, 4, 12^5\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^3, 4^3, 12^5\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{4^5, 12^5\})$ | 5120 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4, 6, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3, 4^3, 6, 12^5\})$ | 5376 |
| 12 | $\mathcal{O}(0; \{3^2, 4, 6^2, 12^5\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2, 4, 6^3, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 12^6\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{3^2, 4^2, 12^6\})$ | 11008 |
| 12 | $\mathcal{O}(0; \{2^4, 6, 12^6\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{3^3, 6, 12^6\})$ | 10944 |
| 12 | $\mathcal{O}(0; \{2, 4^2, 6, 12^6\})$ | 5376 |
| 12 | $\mathcal{O}(0; \{2, 3, 6^2, 12^6\})$ | 5440 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 12 | $\mathcal{O}(0; \{2, 3, 4, 12^7\})$ | 11008 |
| 12 | $\mathcal{O}(0; \{2^2, 12^8\})$ | 11008 |
| 13 | $\mathcal{O}(3; \{13^2\})$ | 57921708 |
| 14 | $\mathcal{O}(2; \{7^4\})$ | 6698790 |
| 14 | $\mathcal{O}(1; \{2^4, 7^4\})$ | 36456 |
| 14 | $\mathcal{O}(1; \{2^2, 7^3, 14^2\})$ | 217560 |
| 14 | $\mathcal{O}(1; \{7^2, 14^4\})$ | 1306536 |
| 14 | $\mathcal{O}(0; \{2^8, 7^4\})$ | 186 |
| 14 | $\mathcal{O}(0; \{2, 7^7, 14\})$ | 239946 |
| 14 | $\mathcal{O}(0; \{2^6, 7^3, 14^2\})$ | 1110 |
| 14 | $\mathcal{O}(0; \{2^4, 7^2, 14^4\})$ | 6666 |
| 14 | $\mathcal{O}(0; \{2^2, 7, 14^6\})$ | 39990 |
| 14 | $\mathcal{O}(0; \{14^8\})$ | 239946 |
| 15 | $\mathcal{O}(2; \{3^2, 5, 15\})$ | 405000 |
| 15 | $\mathcal{O}(1; \{3^4, 5^3\})$ | 16200 |
| 15 | $\mathcal{O}(1; \{3^5, 5, 15\})$ | 19800 |
| 15 | $\mathcal{O}(1; \{5^4, 15^2\})$ | 369000 |
| 15 | $\mathcal{O}(1; \{3, 5^2, 15^3\})$ | 275400 |
| 15 | $\mathcal{O}(1; \{3^2, 15^4\})$ | 257400 |
| 15 | $\mathcal{O}(0; \{3^7, 5^3\})$ | 504 |
| 15 | $\mathcal{O}(0; \{3^8, 5, 15\})$ | 680 |
| 15 | $\mathcal{O}(0; \{3^2, 5^6, 15\})$ | 6552 |
| 15 | $\mathcal{O}(0; \{3^3, 5^4, 15^2\})$ | 8200 |
| 15 | $\mathcal{O}(0; \{3^4, 5^2, 15^3\})$ | 8568 |
| 15 | $\mathcal{O}(0; \{3^5, 15^4\})$ | 8840 |
| 15 | $\mathcal{O}(0; \{5^3, 15^5\})$ | 131080 |
| 15 | $\mathcal{O}(0; \{3, 5, 15^6\})$ | 137592 |
| 16 | $\mathcal{O}(2; \{2^2, 8^2\})$ | 245760 |
| 16 | $\mathcal{O}(2; \{8, 16^2\})$ | 2097152 |
| 16 | $\mathcal{O}(1; \{2^6, 8^2\})$ | 768 |
| 16 | $\mathcal{O}(1; \{2^3, 4^2, 8^2\})$ | 3072 |
| 16 | $\mathcal{O}(1; \{4^4, 8^2\})$ | 12288 |
| 16 | $\mathcal{O}(1; \{2, 4, 8^4\})$ | 24576 |
| 16 | $\mathcal{O}(1; \{2^4, 8, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(1; \{2, 4^2, 8, 16^2\})$ | 32768 |
| 16 | $\mathcal{O}(1; \{2^2, 16^4\})$ | 131072 |
| 16 | $\mathcal{O}(0; \{2^8, 8, 16^2\})$ | 32 |
| 16 | $\mathcal{O}(0; \{2^5, 4^2, 8, 16^2\})$ | 128 |
| 16 | $\mathcal{O}(0; \{2^2, 4^4, 8, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{2^3, 4, 8^3, 16^2\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{4^3, 8^3, 16^2\})$ | 4096 |
| 16 | $\mathcal{O}(0; \{2, 8^5, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(0; \{2^6, 16^4\})$ | 512 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 16 | $\mathcal{O}(0; \{2^3, 4^2, 16^4\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{4^4, 16^4\})$ | 8192 |
| 16 | $\mathcal{O}(0; \{2, 4, 8^2, 16^4\})$ | 16384 |
| 18 | $\mathcal{O}(1; \{3, 9^4\})$ | 78732 |
| 18 | $\mathcal{O}(1; \{2^3, 9^2, 18\})$ | 5832 |
| 18 | $\mathcal{O}(1; \{3, 6, 9^2, 18\})$ | 23328 |
| 18 | $\mathcal{O}(1; \{2^2, 3^2, 18^2\})$ | 7776 |
| 18 | $\mathcal{O}(1; \{2^3, 6, 18^2\})$ | 3888 |
| 18 | $\mathcal{O}(1; \{3, 6^2, 18^2\})$ | 15552 |
| 18 | $\mathcal{O}(1; \{2, 9, 18^3\})$ | 52488 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 9^4\})$ | 324 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6, 9^4\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2^2, 6^2, 9^4\})$ | 648 |
| 18 | $\mathcal{O}(0; \{2^7, 9^2, 18\})$ | 18 |
| 18 | $\mathcal{O}(0; \{2^3, 3^3, 9^2, 18\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 6, 9^2, 18\})$ | 72 |
| 18 | $\mathcal{O}(0; \{3^4, 6, 9^2, 18\})$ | 576 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6^2, 9^2, 18\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2^2, 6^3, 9^2, 18\})$ | 144 |
| 18 | $\mathcal{O}(0; \{6, 9^5, 18\})$ | 10692 |
| 18 | $\mathcal{O}(0; \{2^6, 3^2, 18^2\})$ | 24 |
| 18 | $\mathcal{O}(0; \{2^2, 3^5, 18^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^7, 6, 18^2\})$ | 12 |
| 18 | $\mathcal{O}(0; \{2^3, 3^3, 6, 18^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 6^2, 18^2\})$ | 48 |
| 18 | $\mathcal{O}(0; \{3^4, 6^2, 18^2\})$ | 384 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6^3, 18^2\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^2, 6^4, 18^2\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 9^3, 18^2\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{6^2, 9^3, 18^2\})$ | 3240 |
| 18 | $\mathcal{O}(0; \{2^5, 9, 18^3\})$ | 162 |
| 18 | $\mathcal{O}(0; \{2, 3^3, 9, 18^3\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 6, 9, 18^3\})$ | 648 |
| 18 | $\mathcal{O}(0; \{6^3, 9, 18^3\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{3, 9^2, 18^4\})$ | 10692 |
| 18 | $\mathcal{O}(0; \{2^3, 18^5\})$ | 810 |
| 18 | $\mathcal{O}(0; \{3, 6, 18^5\})$ | 3240 |
| 19 | $\mathcal{O}(3; \emptyset)$ | 47045880 |
| 20 | $\mathcal{O}(2; \{10^2\})$ | 600000 |
| 20 | $\mathcal{O}(1; \{2, 5^3, 10\})$ | 15600 |
| 20 | $\mathcal{O}(1; \{2^4, 10^2\})$ | 1200 |
| 20 | $\mathcal{O}(1; \{2, 4^2, 10^2\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{2, 4, 5^2, 20\})$ | 9600 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 20 | $\mathcal{O}(1; \{2^2, 10, 20^2\})$ | 9600 |
| 20 | $\mathcal{O}(1; \{20^4\})$ | 166400 |
| 20 | $\mathcal{O}(0; \{2^2, 4^2, 5^3, 10\})$ | 104 |
| 20 | $\mathcal{O}(0; \{2^5, 4^2, 10^2\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^2, 4^4, 10^2\})$ | 32 |
| 20 | $\mathcal{O}(0; \{4^2, 5^2, 10^3\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^5, 4, 5^2, 20\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2^2, 4^3, 5^2, 20\})$ | 96 |
| 20 | $\mathcal{O}(0; \{4, 5^4, 10, 20\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^3, 4, 5, 10^2, 20\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4^3, 5, 10^2, 20\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2, 4, 10^4, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^3, 5^3, 20^2\})$ | 408 |
| 20 | $\mathcal{O}(0; \{4^2, 5^3, 20^2\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{2^6, 10, 20^2\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2^3, 4^2, 10, 20^2\})$ | 96 |
| 20 | $\mathcal{O}(0; \{4^4, 10, 20^2\})$ | 384 |
| 20 | $\mathcal{O}(0; \{2, 5^2, 10^2, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2, 4, 5, 10, 20^3\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{2^4, 20^4\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2, 4^2, 20^4\})$ | 1664 |
| 21 | $\mathcal{O}(1; \{7^2, 21^2\})$ | 164052 |
| 21 | $\mathcal{O}(0; \{3^2, 7^5\})$ | 2220 |
| 21 | $\mathcal{O}(0; \{3^3, 7^2, 21^2\})$ | 1860 |
| 21 | $\mathcal{O}(0; \{7, 21^5\})$ | 66660 |
| 24 | $\mathcal{O}(1; \{4^2, 6^2\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{3, 4, 6, 12\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{3^2, 12^2\})$ | 5184 |
| 24 | $\mathcal{O}(1; \{2, 6, 12^2\})$ | 1728 |
| 24 | $\mathcal{O}(1; \{3^2, 8, 24\})$ | 4608 |
| 24 | $\mathcal{O}(1; \{2, 6, 8, 24\})$ | 4608 |
| 24 | $\mathcal{O}(1; \{2, 4, 24^2\})$ | 9216 |
| 24 | $\mathcal{O}(0; \{3^4, 4, 8^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 4, 6, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2^2, 4, 6^2, 8^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{6^2, 8^4\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2, 3^3, 8^2, 12\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 6, 8^2, 12\})$ | 16 |
| 24 | $\mathcal{O}(0; \{6^3, 8^2, 12\})$ | 48 |
| 24 | $\mathcal{O}(0; \{4, 6, 8^2, 12^2\})$ | 64 |
| 24 | $\mathcal{O}(0; \{3, 8^2, 12^3\})$ | 192 |
| 24 | $\mathcal{O}(0; \{2^4, 3^2, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^5, 8, 24\})$ | 88 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 24 | $\mathcal{O}(0; \{2, 3^2, 4^2, 8, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^5, 6, 8, 24\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2, 3^3, 6, 8, 24\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2^2, 4^2, 6, 8, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 6^2, 8, 24\})$ | 24 |
| 24 | $\mathcal{O}(0; \{6^4, 8, 24\})$ | 40 |
| 24 | $\mathcal{O}(0; \{4, 6, 8^3, 24\})$ | 256 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 4, 8, 12, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{4, 6^2, 8, 12, 24\})$ | 96 |
| 24 | $\mathcal{O}(0; \{3, 8^3, 12, 24\})$ | 256 |
| 24 | $\mathcal{O}(0; \{2^3, 8, 12^2, 24\})$ | 32 |
| 24 | $\mathcal{O}(0; \{4^2, 8, 12^2, 24\})$ | 128 |
| 24 | $\mathcal{O}(0; \{3, 6, 8, 12^2, 24\})$ | 160 |
| 24 | $\mathcal{O}(0; \{2^5, 4, 24^2\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2, 3^3, 4, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2^2, 4^3, 24^2\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 4, 6, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{4, 6^3, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2^3, 8^2, 24^2\})$ | 128 |
| 24 | $\mathcal{O}(0; \{4^2, 8^2, 24^2\})$ | 512 |
| 24 | $\mathcal{O}(0; \{3, 6, 8^2, 24^2\})$ | 384 |
| 24 | $\mathcal{O}(0; \{2^2, 3^2, 12, 24^2\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2^3, 6, 12, 24^2\})$ | 48 |
| 24 | $\mathcal{O}(0; \{4^2, 6, 12, 24^2\})$ | 192 |
| 24 | $\mathcal{O}(0; \{3, 6^2, 12, 24^2\})$ | 176 |
| 24 | $\mathcal{O}(0; \{3, 4, 12^2, 24^2\})$ | 320 |
| 24 | $\mathcal{O}(0; \{2, 12^3, 24^2\})$ | 320 |
| 24 | $\mathcal{O}(0; \{3, 4, 8, 24^3\})$ | 768 |
| 24 | $\mathcal{O}(0; \{2, 8, 12, 24^3\})$ | 768 |
| 24 | $\mathcal{O}(0; \{3^2, 24^4\})$ | 1408 |
| 24 | $\mathcal{O}(0; \{2, 6, 24^4\})$ | 640 |
| 26 | $\mathcal{O}(1; \{2^2, 26^2\})$ | 8112 |
| 26 | $\mathcal{O}(0; \{2^6, 26^2\})$ | 12 |
| 27 | $\mathcal{O}(1; \{9, 27^2\})$ | 78732 |
| 27 | $\mathcal{O}(0; \{3^3, 9, 27^2\})$ | 864 |
| 27 | $\mathcal{O}(0; \{27^5\})$ | 65610 |
| 28 | $\mathcal{O}(1; \{2^2, 7^2\})$ | 3528 |
| 28 | $\mathcal{O}(1; \{7, 14^2\})$ | 17640 |
| 28 | $\mathcal{O}(0; \{2^3, 4^2, 7^2\})$ | 12 |
| 28 | $\mathcal{O}(0; \{4^4, 7^2\})$ | 48 |
| 28 | $\mathcal{O}(0; \{2, 4^2, 7, 14^2\})$ | 60 |
| 28 | $\mathcal{O}(0; \{2^2, 7, 14, 28^2\})$ | 372 |
| 28 | $\mathcal{O}(0; \{14^3, 28^2\})$ | 2220 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 28 | $\mathcal{O}(0; \{7, 28^4\})$ | 8880 |
| 30 | $\mathcal{O}(1; \{3, 15^2\})$ | 5400 |
| 30 | $\mathcal{O}(1; \{3, 10, 30\})$ | 7200 |
| 30 | $\mathcal{O}(0; \{2^3, 3^2, 5, 10\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3^3, 5, 6, 10\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 3, 5, 6^2, 10\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 10^3\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 3, 5^2, 6, 15\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^4, 3, 15^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 6, 15^2\})$ | 40 |
| 30 | $\mathcal{O}(0; \{2^2, 6^2, 15^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{6, 10, 15^3\})$ | 312 |
| 30 | $\mathcal{O}(0; \{2, 3, 5^3, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2^4, 3, 10, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3^4, 10, 30\})$ | 40 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 6, 10, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 6^2, 10, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 5, 15, 30\})$ | 72 |
| 30 | $\mathcal{O}(0; \{2^2, 5, 6, 15, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{6, 10^2, 15, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{5, 10, 15^2, 30\})$ | 408 |
| 30 | $\mathcal{O}(0; \{2^2, 5^2, 30^2\})$ | 104 |
| 30 | $\mathcal{O}(0; \{5, 10^2, 30^2\})$ | 408 |
| 30 | $\mathcal{O}(0; \{2^2, 3, 15, 30^2\})$ | 72 |
| 30 | $\mathcal{O}(0; \{6^2, 15, 30^2\})$ | 120 |
| 30 | $\mathcal{O}(0; \{5, 6, 30^3\})$ | 312 |
| 30 | $\mathcal{O}(0; \{3, 30^4\})$ | 520 |
| 32 | $\mathcal{O}(1; \{2, 16^2\})$ | 6144 |
| 32 | $\mathcal{O}(0; \{2^3, 16, 32^2\})$ | 128 |
| 32 | $\mathcal{O}(0; \{4^2, 16, 32^2\})$ | 512 |
| 32 | $\mathcal{O}(0; \{2, 32^4\})$ | 4096 |
| 35 | $\mathcal{O}(0; \{5^2, 7^3\})$ | 120 |
| 36 | $\mathcal{O}(0; \{4^2, 6, 9^2\})$ | 24 |
| 36 | $\mathcal{O}(0; \{3, 4, 9^2, 12\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2, 9^2, 12^2\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2^3, 4, 9, 36\})$ | 12 |
| 36 | $\mathcal{O}(0; \{4^3, 9, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{3, 4, 6, 9, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{3^2, 9, 12, 36\})$ | 96 |
| 36 | $\mathcal{O}(0; \{2, 6, 9, 12, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2, 4, 18^2, 36\})$ | 36 |
| 36 | $\mathcal{O}(0; \{2^3, 3, 36^2\})$ | 24 |
| 36 | $\mathcal{O}(0; \{3, 4^2, 36^2\})$ | 96 |

Continued on next page

Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 36 | $\mathcal{O}(0; \{3^2, 6, 36^2\})$ | 96 |
| 36 | $\mathcal{O}(0; \{2, 6^2, 36^2\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2, 4, 12, 36^2\})$ | 96 |
| 38 | $\mathcal{O}(2; \emptyset)$ | 1954800 |
| 38 | $\mathcal{O}(1; \{2^4\})$ | 1440 |
| 39 | $\mathcal{O}(1; \{39^2\})$ | 36504 |
| 39 | $\mathcal{O}(0; \{3^3, 39^2\})$ | 120 |
| 40 | $\mathcal{O}(1; \{20^2\})$ | 9600 |
| 40 | $\mathcal{O}(0; \{2, 4, 5, 8, 40\})$ | 32 |
| 40 | $\mathcal{O}(0; \{2^2, 20, 40^2\})$ | 96 |
| 40 | $\mathcal{O}(0; \{40^4\})$ | 3328 |
| 42 | $\mathcal{O}(0; \{2, 3, 6, 7, 21\})$ | 12 |
| 42 | $\mathcal{O}(0; \{14, 21^2, 42\})$ | 372 |
| 42 | $\mathcal{O}(0; \{2^2, 7, 42^2\})$ | 60 |
| 42 | $\mathcal{O}(0; \{14^2, 42^2\})$ | 372 |
| 45 | $\mathcal{O}(0; \{9^2, 15, 45\})$ | 144 |
| 45 | $\mathcal{O}(0; \{5, 15, 45^2\})$ | 624 |
| 48 | $\mathcal{O}(0; \{2^2, 3, 16, 48\})$ | 16 |
| 48 | $\mathcal{O}(0; \{6^2, 16, 48\})$ | 16 |
| 48 | $\mathcal{O}(0; \{4, 12, 16, 48\})$ | 64 |
| 48 | $\mathcal{O}(0; \{4, 8, 48^2\})$ | 128 |
| 48 | $\mathcal{O}(0; \{3, 24, 48^2\})$ | 192 |
| 52 | $\mathcal{O}(0; \{2^3, 52^2\})$ | 24 |
| 52 | $\mathcal{O}(0; \{4^2, 52^2\})$ | 96 |
| 54 | $\mathcal{O}(0; \{2, 27^2, 54\})$ | 162 |
| 54 | $\mathcal{O}(0; \{2, 18, 54^2\})$ | 108 |
| 57 | $\mathcal{O}(1; \{3^2\})$ | 6480 |
| 60 | $\mathcal{O}(0; \{3^2, 20, 60\})$ | 16 |
| 60 | $\mathcal{O}(0; \{2, 6, 20, 60\})$ | 16 |
| 60 | $\mathcal{O}(0; \{2, 5, 60^2\})$ | 48 |
| 76 | $\mathcal{O}(1; \{2^2\})$ | 4320 |
| 78 | $\mathcal{O}(0; \{2^2, 78^2\})$ | 24 |
| 79 | $\mathcal{O}(0; \{79^3\})$ | 6006 |
| 80 | $\mathcal{O}(0; \{40, 80^2\})$ | 384 |
| 81 | $\mathcal{O}(0; \{27, 81^2\})$ | 972 |
| 84 | $\mathcal{O}(0; \{21, 28, 84\})$ | 120 |
| 84 | $\mathcal{O}(0; \{14, 84^2\})$ | 120 |
| 90 | $\mathcal{O}(0; \{9, 30, 90\})$ | 48 |
| 91 | $\mathcal{O}(0; \{7, 91^2\})$ | 360 |
| 96 | $\mathcal{O}(0; \{6, 32, 96\})$ | 32 |
| 104 | $\mathcal{O}(0; \{4, 104^2\})$ | 96 |
| 108 | $\mathcal{O}(0; \{4, 27, 108\})$ | 36 |
| 117 | $\mathcal{O}(0; \{3, 117^2\})$ | 144 |

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Table 9 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------------|---|
| 120 | $\mathcal{O}(0; \{3, 40, 120\})$ | 32 |
| 156 | $\mathcal{O}(0; \{2, 156^2\})$ | 48 |
| 158 | $\mathcal{O}(0; \{2, 79, 158\})$ | 78 |

Table 10: 40-admissible orbifolds.

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------|---|
| 1 | $\mathcal{O}(40; \emptyset)$ | 1 |
| 2 | $\mathcal{O}(20; \{2^2\})$ | 1099511627776 |
| 2 | $\mathcal{O}(19; \{2^6\})$ | 274877906944 |
| 2 | $\mathcal{O}(18; \{2^{10}\})$ | 68719476736 |
| 2 | $\mathcal{O}(17; \{2^{14}\})$ | 17179869184 |
| 2 | $\mathcal{O}(16; \{2^{18}\})$ | 4294967296 |
| 2 | $\mathcal{O}(15; \{2^{22}\})$ | 1073741824 |
| 2 | $\mathcal{O}(14; \{2^{26}\})$ | 268435456 |
| 2 | $\mathcal{O}(13; \{2^{30}\})$ | 67108864 |
| 2 | $\mathcal{O}(12; \{2^{34}\})$ | 16777216 |
| 2 | $\mathcal{O}(11; \{2^{38}\})$ | 4194304 |
| 2 | $\mathcal{O}(10; \{2^{42}\})$ | 1048576 |
| 2 | $\mathcal{O}(9; \{2^{46}\})$ | 262144 |
| 2 | $\mathcal{O}(8; \{2^{50}\})$ | 65536 |
| 2 | $\mathcal{O}(7; \{2^{54}\})$ | 16384 |
| 2 | $\mathcal{O}(6; \{2^{58}\})$ | 4096 |
| 2 | $\mathcal{O}(5; \{2^{62}\})$ | 1024 |
| 2 | $\mathcal{O}(4; \{2^{66}\})$ | 256 |
| 2 | $\mathcal{O}(3; \{2^{70}\})$ | 64 |
| 2 | $\mathcal{O}(2; \{2^{74}\})$ | 16 |
| 2 | $\mathcal{O}(1; \{2^{78}\})$ | 4 |
| 2 | $\mathcal{O}(0; \{2^{82}\})$ | 1 |
| 3 | $\mathcal{O}(14; \emptyset)$ | 22876792454960 |
| 3 | $\mathcal{O}(13; \{3^3\})$ | 5083731656658 |
| 3 | $\mathcal{O}(12; \{3^6\})$ | 6213449802582 |
| 3 | $\mathcal{O}(11; \{3^9\})$ | 5334780133530 |
| 3 | $\mathcal{O}(10; \{3^{12}\})$ | 4762947491766 |
| 3 | $\mathcal{O}(9; \{3^{15}\})$ | 4231406580858 |
| 3 | $\mathcal{O}(8; \{3^{18}\})$ | 3761508574422 |
| 3 | $\mathcal{O}(7; \{3^{21}\})$ | 3343534479450 |
| 3 | $\mathcal{O}(6; \{3^{24}\})$ | 2972033837046 |
| 3 | $\mathcal{O}(5; \{3^{27}\})$ | 2641807500858 |
| 3 | $\mathcal{O}(4; \{3^{30}\})$ | 2348273373462 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--------------------------------------|---|
| 3 | $\mathcal{O}(3; \{3^{33}\})$ | 2087354105370 |
| 3 | $\mathcal{O}(2; \{3^{36}\})$ | 1855425871926 |
| 3 | $\mathcal{O}(1; \{3^{39}\})$ | 1649267441658 |
| 3 | $\mathcal{O}(0; \{3^{42}\})$ | 1466015503702 |
| 4 | $\mathcal{O}(10; \{4^2\})$ | 2199023255552 |
| 4 | $\mathcal{O}(9; \{2^4, 4^2\})$ | 137438953472 |
| 4 | $\mathcal{O}(9; \{2, 4^4\})$ | 549755813888 |
| 4 | $\mathcal{O}(8; \{2^8, 4^2\})$ | 8589934592 |
| 4 | $\mathcal{O}(8; \{2^5, 4^4\})$ | 34359738368 |
| 4 | $\mathcal{O}(8; \{2^2, 4^6\})$ | 137438953472 |
| 4 | $\mathcal{O}(7; \{2^{12}, 4^2\})$ | 536870912 |
| 4 | $\mathcal{O}(7; \{2^9, 4^4\})$ | 2147483648 |
| 4 | $\mathcal{O}(7; \{2^6, 4^6\})$ | 8589934592 |
| 4 | $\mathcal{O}(7; \{2^3, 4^8\})$ | 34359738368 |
| 4 | $\mathcal{O}(7; \{4^{10}\})$ | 137438953472 |
| 4 | $\mathcal{O}(6; \{2^{16}, 4^2\})$ | 33554432 |
| 4 | $\mathcal{O}(6; \{2^{13}, 4^4\})$ | 134217728 |
| 4 | $\mathcal{O}(6; \{2^{10}, 4^6\})$ | 536870912 |
| 4 | $\mathcal{O}(6; \{2^7, 4^8\})$ | 2147483648 |
| 4 | $\mathcal{O}(6; \{2^4, 4^{10}\})$ | 8589934592 |
| 4 | $\mathcal{O}(6; \{2, 4^{12}\})$ | 34359738368 |
| 4 | $\mathcal{O}(5; \{2^{20}, 4^2\})$ | 2097152 |
| 4 | $\mathcal{O}(5; \{2^{17}, 4^4\})$ | 8388608 |
| 4 | $\mathcal{O}(5; \{2^{14}, 4^6\})$ | 33554432 |
| 4 | $\mathcal{O}(5; \{2^{11}, 4^8\})$ | 134217728 |
| 4 | $\mathcal{O}(5; \{2^8, 4^{10}\})$ | 536870912 |
| 4 | $\mathcal{O}(5; \{2^5, 4^{12}\})$ | 2147483648 |
| 4 | $\mathcal{O}(5; \{2^2, 4^{14}\})$ | 8589934592 |
| 4 | $\mathcal{O}(4; \{2^{24}, 4^2\})$ | 131072 |
| 4 | $\mathcal{O}(4; \{2^{21}, 4^4\})$ | 524288 |
| 4 | $\mathcal{O}(4; \{2^{18}, 4^6\})$ | 2097152 |
| 4 | $\mathcal{O}(4; \{2^{15}, 4^8\})$ | 8388608 |
| 4 | $\mathcal{O}(4; \{2^{12}, 4^{10}\})$ | 33554432 |
| 4 | $\mathcal{O}(4; \{2^9, 4^{12}\})$ | 134217728 |
| 4 | $\mathcal{O}(4; \{2^6, 4^{14}\})$ | 536870912 |
| 4 | $\mathcal{O}(4; \{2^3, 4^{16}\})$ | 2147483648 |
| 4 | $\mathcal{O}(4; \{4^{18}\})$ | 8589934592 |
| 4 | $\mathcal{O}(3; \{2^{28}, 4^2\})$ | 8192 |
| 4 | $\mathcal{O}(3; \{2^{25}, 4^4\})$ | 32768 |
| 4 | $\mathcal{O}(3; \{2^{22}, 4^6\})$ | 131072 |
| 4 | $\mathcal{O}(3; \{2^{19}, 4^8\})$ | 524288 |
| 4 | $\mathcal{O}(3; \{2^{16}, 4^{10}\})$ | 2097152 |
| 4 | $\mathcal{O}(3; \{2^{13}, 4^{12}\})$ | 8388608 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------|---|
| 4 | $O(3; \{2^{10}, 4^{14}\})$ | 33554432 |
| 4 | $O(3; \{2^7, 4^{16}\})$ | 134217728 |
| 4 | $O(3; \{2^4, 4^{18}\})$ | 536870912 |
| 4 | $O(3; \{2, 4^{20}\})$ | 2147483648 |
| 4 | $O(2; \{2^{32}, 4^2\})$ | 512 |
| 4 | $O(2; \{2^{29}, 4^4\})$ | 2048 |
| 4 | $O(2; \{2^{26}, 4^6\})$ | 8192 |
| 4 | $O(2; \{2^{23}, 4^8\})$ | 32768 |
| 4 | $O(2; \{2^{20}, 4^{10}\})$ | 131072 |
| 4 | $O(2; \{2^{17}, 4^{12}\})$ | 524288 |
| 4 | $O(2; \{2^{14}, 4^{14}\})$ | 2097152 |
| 4 | $O(2; \{2^{11}, 4^{16}\})$ | 8388608 |
| 4 | $O(2; \{2^8, 4^{18}\})$ | 33554432 |
| 4 | $O(2; \{2^5, 4^{20}\})$ | 134217728 |
| 4 | $O(2; \{2^2, 4^{22}\})$ | 536870912 |
| 4 | $O(1; \{2^{36}, 4^2\})$ | 32 |
| 4 | $O(1; \{2^{33}, 4^4\})$ | 128 |
| 4 | $O(1; \{2^{30}, 4^6\})$ | 512 |
| 4 | $O(1; \{2^{27}, 4^8\})$ | 2048 |
| 4 | $O(1; \{2^{24}, 4^{10}\})$ | 8192 |
| 4 | $O(1; \{2^{21}, 4^{12}\})$ | 32768 |
| 4 | $O(1; \{2^{18}, 4^{14}\})$ | 131072 |
| 4 | $O(1; \{2^{15}, 4^{16}\})$ | 524288 |
| 4 | $O(1; \{2^{12}, 4^{18}\})$ | 2097152 |
| 4 | $O(1; \{2^9, 4^{20}\})$ | 8388608 |
| 4 | $O(1; \{2^6, 4^{22}\})$ | 33554432 |
| 4 | $O(1; \{2^3, 4^{24}\})$ | 134217728 |
| 4 | $O(1; \{4^{26}\})$ | 536870912 |
| 4 | $O(0; \{2^{40}, 4^2\})$ | 2 |
| 4 | $O(0; \{2^{37}, 4^4\})$ | 8 |
| 4 | $O(0; \{2^{34}, 4^6\})$ | 32 |
| 4 | $O(0; \{2^{31}, 4^8\})$ | 128 |
| 4 | $O(0; \{2^{28}, 4^{10}\})$ | 512 |
| 4 | $O(0; \{2^{25}, 4^{12}\})$ | 2048 |
| 4 | $O(0; \{2^{22}, 4^{14}\})$ | 8192 |
| 4 | $O(0; \{2^{19}, 4^{16}\})$ | 32768 |
| 4 | $O(0; \{2^{16}, 4^{18}\})$ | 131072 |
| 4 | $O(0; \{2^{13}, 4^{20}\})$ | 524288 |
| 4 | $O(0; \{2^{10}, 4^{22}\})$ | 2097152 |
| 4 | $O(0; \{2^7, 4^{24}\})$ | 8388608 |
| 4 | $O(0; \{2^4, 4^{26}\})$ | 33554432 |
| 4 | $O(0; \{2, 4^{28}\})$ | 134217728 |
| 5 | $O(8; \{5^2\})$ | 610351562500 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------------|---|
| 5 | $\mathcal{O}(6; \{5^7\})$ | 799804687500 |
| 5 | $\mathcal{O}(4; \{5^{12}\})$ | 1310720312500 |
| 5 | $\mathcal{O}(2; \{5^{17}\})$ | 2147483647500 |
| 5 | $\mathcal{O}(0; \{5^{22}\})$ | 3518437208884 |
| 6 | $\mathcal{O}(7; \{2^2\})$ | 78364147712 |
| 6 | $\mathcal{O}(6; \{2^6\})$ | 2176778240 |
| 6 | $\mathcal{O}(6; \{2^2, 3^3\})$ | 4353564672 |
| 6 | $\mathcal{O}(6; \{2^3, 3, 6\})$ | 4353564672 |
| 6 | $\mathcal{O}(6; \{3^2, 6^2\})$ | 13060694016 |
| 6 | $\mathcal{O}(6; \{2, 6^3\})$ | 4353564672 |
| 6 | $\mathcal{O}(5; \{2^{10}\})$ | 60465152 |
| 6 | $\mathcal{O}(5; \{2^6, 3^3\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{2^2, 3^6\})$ | 1330255872 |
| 6 | $\mathcal{O}(5; \{2^7, 3, 6\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{2^3, 3^4, 6\})$ | 604661760 |
| 6 | $\mathcal{O}(5; \{2^4, 3^2, 6^2\})$ | 362797056 |
| 6 | $\mathcal{O}(5; \{3^5, 6^2\})$ | 2539579392 |
| 6 | $\mathcal{O}(5; \{2^5, 6^3\})$ | 120932352 |
| 6 | $\mathcal{O}(5; \{2, 3^3, 6^3\})$ | 1330255872 |
| 6 | $\mathcal{O}(5; \{2^2, 3, 6^4\})$ | 604661760 |
| 6 | $\mathcal{O}(5; \{6^6\})$ | 1330255872 |
| 6 | $\mathcal{O}(4; \{2^{14}\})$ | 1679360 |
| 6 | $\mathcal{O}(4; \{2^{10}, 3^3\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^6, 3^6\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2^2, 3^9\})$ | 285534720 |
| 6 | $\mathcal{O}(4; \{2^{11}, 3, 6\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^7, 3^4, 6\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^3, 3^7, 6\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2^8, 3^2, 6^2\})$ | 10077696 |
| 6 | $\mathcal{O}(4; \{2^4, 3^5, 6^2\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{3^8, 6^2\})$ | 574428672 |
| 6 | $\mathcal{O}(4; \{2^9, 6^3\})$ | 3359232 |
| 6 | $\mathcal{O}(4; \{2^5, 3^3, 6^3\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{2, 3^6, 6^3\})$ | 285534720 |
| 6 | $\mathcal{O}(4; \{2^6, 3, 6^4\})$ | 16796160 |
| 6 | $\mathcal{O}(4; \{2^2, 3^4, 6^4\})$ | 144446976 |
| 6 | $\mathcal{O}(4; \{2^3, 3^2, 6^5\})$ | 70543872 |
| 6 | $\mathcal{O}(4; \{2^4, 6^6\})$ | 36951552 |
| 6 | $\mathcal{O}(4; \{3^3, 6^6\})$ | 285534720 |
| 6 | $\mathcal{O}(4; \{2, 3, 6^7\})$ | 144446976 |
| 6 | $\mathcal{O}(3; \{2^{18}\})$ | 46592 |
| 6 | $\mathcal{O}(3; \{2^{14}, 3^3\})$ | 93312 |
| 6 | $\mathcal{O}(3; \{2^{10}, 3^6\})$ | 1026432 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------|---|
| 6 | $O(3; \{2^6, 3^9\})$ | 7931520 |
| 6 | $O(3; \{2^2, 3^{12}\})$ | 63732096 |
| 6 | $O(3; \{2^{15}, 3, 6\})$ | 93312 |
| 6 | $O(3; \{2^{11}, 3^4, 6\})$ | 466560 |
| 6 | $O(3; \{2^7, 3^7, 6\})$ | 4012416 |
| 6 | $O(3; \{2^3, 3^{10}, 6\})$ | 31819392 |
| 6 | $O(3; \{2^{12}, 3^2, 6^2\})$ | 279936 |
| 6 | $O(3; \{2^8, 3^5, 6^2\})$ | 1959552 |
| 6 | $O(3; \{2^4, 3^8, 6^2\})$ | 15956352 |
| 6 | $O(3; \{3^{11}, 6^2\})$ | 127370880 |
| 6 | $O(3; \{2^{13}, 6^3\})$ | 93312 |
| 6 | $O(3; \{2^9, 3^3, 6^3\})$ | 1026432 |
| 6 | $O(3; \{2^5, 3^6, 6^3\})$ | 7931520 |
| 6 | $O(3; \{2, 3^9, 6^3\})$ | 63732096 |
| 6 | $O(3; \{2^{10}, 3, 6^4\})$ | 466560 |
| 6 | $O(3; \{2^6, 3^4, 6^4\})$ | 4012416 |
| 6 | $O(3; \{2^2, 3^7, 6^4\})$ | 31819392 |
| 6 | $O(3; \{2^7, 3^2, 6^5\})$ | 1959552 |
| 6 | $O(3; \{2^3, 3^5, 6^5\})$ | 15956352 |
| 6 | $O(3; \{2^8, 6^6\})$ | 1026432 |
| 6 | $O(3; \{2^4, 3^3, 6^6\})$ | 7931520 |
| 6 | $O(3; \{3^6, 6^6\})$ | 63732096 |
| 6 | $O(3; \{2^5, 3, 6^7\})$ | 4012416 |
| 6 | $O(3; \{2, 3^4, 6^7\})$ | 31819392 |
| 6 | $O(3; \{2^2, 3^2, 6^8\})$ | 15956352 |
| 6 | $O(3; \{2^3, 6^9\})$ | 7931520 |
| 6 | $O(3; \{3, 6^{10}\})$ | 31819392 |
| 6 | $O(2; \{2^{22}\})$ | 1280 |
| 6 | $O(2; \{2^{18}, 3^3\})$ | 2592 |
| 6 | $O(2; \{2^{14}, 3^6\})$ | 28512 |
| 6 | $O(2; \{2^{10}, 3^9\})$ | 220320 |
| 6 | $O(2; \{2^6, 3^{12}\})$ | 1770336 |
| 6 | $O(2; \{2^2, 3^{15}\})$ | 14154912 |
| 6 | $O(2; \{2^{19}, 3, 6\})$ | 2592 |
| 6 | $O(2; \{2^{15}, 3^4, 6\})$ | 12960 |
| 6 | $O(2; \{2^{11}, 3^7, 6\})$ | 111456 |
| 6 | $O(2; \{2^7, 3^{10}, 6\})$ | 883872 |
| 6 | $O(2; \{2^3, 3^{13}, 6\})$ | 7078752 |
| 6 | $O(2; \{2^{16}, 3^2, 6^2\})$ | 7776 |
| 6 | $O(2; \{2^{12}, 3^5, 6^2\})$ | 54432 |
| 6 | $O(2; \{2^8, 3^8, 6^2\})$ | 443232 |
| 6 | $O(2; \{2^4, 3^{11}, 6^2\})$ | 3538080 |
| 6 | $O(2; \{3^{14}, 6^2\})$ | 28312416 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(2; \{2^{17}, 6^3\})$ | 2592 |
| 6 | $\mathcal{O}(2; \{2^{13}, 3^3, 6^3\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^9, 3^6, 6^3\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^5, 3^9, 6^3\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2, 3^{12}, 6^3\})$ | 14154912 |
| 6 | $\mathcal{O}(2; \{2^{14}, 3, 6^4\})$ | 12960 |
| 6 | $\mathcal{O}(2; \{2^{10}, 3^4, 6^4\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^6, 3^7, 6^4\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2^2, 3^{10}, 6^4\})$ | 7078752 |
| 6 | $\mathcal{O}(2; \{2^{11}, 3^2, 6^5\})$ | 54432 |
| 6 | $\mathcal{O}(2; \{2^7, 3^5, 6^5\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^3, 3^8, 6^5\})$ | 3538080 |
| 6 | $\mathcal{O}(2; \{2^{12}, 6^6\})$ | 28512 |
| 6 | $\mathcal{O}(2; \{2^8, 3^3, 6^6\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^4, 3^6, 6^6\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{3^9, 6^6\})$ | 14154912 |
| 6 | $\mathcal{O}(2; \{2^9, 3, 6^7\})$ | 111456 |
| 6 | $\mathcal{O}(2; \{2^5, 3^4, 6^7\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{2, 3^7, 6^7\})$ | 7078752 |
| 6 | $\mathcal{O}(2; \{2^6, 3^2, 6^8\})$ | 443232 |
| 6 | $\mathcal{O}(2; \{2^2, 3^5, 6^8\})$ | 3538080 |
| 6 | $\mathcal{O}(2; \{2^7, 6^9\})$ | 220320 |
| 6 | $\mathcal{O}(2; \{2^3, 3^3, 6^9\})$ | 1770336 |
| 6 | $\mathcal{O}(2; \{2^4, 3, 6^{10}\})$ | 883872 |
| 6 | $\mathcal{O}(2; \{3^4, 6^{10}\})$ | 7078752 |
| 6 | $\mathcal{O}(2; \{2, 3^2, 6^{11}\})$ | 3538080 |
| 6 | $\mathcal{O}(2; \{2^2, 6^{12}\})$ | 1770336 |
| 6 | $\mathcal{O}(1; \{2^{26}\})$ | 32 |
| 6 | $\mathcal{O}(1; \{2^{22}, 3^3\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{18}, 3^6\})$ | 792 |
| 6 | $\mathcal{O}(1; \{2^{14}, 3^9\})$ | 6120 |
| 6 | $\mathcal{O}(1; \{2^{10}, 3^{12}\})$ | 49176 |
| 6 | $\mathcal{O}(1; \{2^6, 3^{15}\})$ | 393192 |
| 6 | $\mathcal{O}(1; \{2^2, 3^{18}\})$ | 3145752 |
| 6 | $\mathcal{O}(1; \{2^{23}, 3, 6\})$ | 72 |
| 6 | $\mathcal{O}(1; \{2^{19}, 3^4, 6\})$ | 360 |
| 6 | $\mathcal{O}(1; \{2^{15}, 3^7, 6\})$ | 3096 |
| 6 | $\mathcal{O}(1; \{2^{11}, 3^{10}, 6\})$ | 24552 |
| 6 | $\mathcal{O}(1; \{2^7, 3^{13}, 6\})$ | 196632 |
| 6 | $\mathcal{O}(1; \{2^3, 3^{16}, 6\})$ | 1572840 |
| 6 | $\mathcal{O}(1; \{2^{20}, 3^2, 6^2\})$ | 216 |
| 6 | $\mathcal{O}(1; \{2^{16}, 3^5, 6^2\})$ | 1512 |
| 6 | $\mathcal{O}(1; \{2^{12}, 3^8, 6^2\})$ | 12312 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------|---|
| 6 | $O(1; \{2^8, 3^{11}, 6^2\})$ | 98280 |
| 6 | $O(1; \{2^4, 3^{14}, 6^2\})$ | 786456 |
| 6 | $O(1; \{3^{17}, 6^2\})$ | 6291432 |
| 6 | $O(1; \{2^{21}, 6^3\})$ | 72 |
| 6 | $O(1; \{2^{17}, 3^3, 6^3\})$ | 792 |
| 6 | $O(1; \{2^{13}, 3^6, 6^3\})$ | 6120 |
| 6 | $O(1; \{2^9, 3^9, 6^3\})$ | 49176 |
| 6 | $O(1; \{2^5, 3^{12}, 6^3\})$ | 393192 |
| 6 | $O(1; \{2, 3^{15}, 6^3\})$ | 3145752 |
| 6 | $O(1; \{2^{18}, 3, 6^4\})$ | 360 |
| 6 | $O(1; \{2^{14}, 3^4, 6^4\})$ | 3096 |
| 6 | $O(1; \{2^{10}, 3^7, 6^4\})$ | 24552 |
| 6 | $O(1; \{2^6, 3^{10}, 6^4\})$ | 196632 |
| 6 | $O(1; \{2^2, 3^{13}, 6^4\})$ | 1572840 |
| 6 | $O(1; \{2^{15}, 3^2, 6^5\})$ | 1512 |
| 6 | $O(1; \{2^{11}, 3^5, 6^5\})$ | 12312 |
| 6 | $O(1; \{2^7, 3^8, 6^5\})$ | 98280 |
| 6 | $O(1; \{2^3, 3^{11}, 6^5\})$ | 786456 |
| 6 | $O(1; \{2^{16}, 6^6\})$ | 792 |
| 6 | $O(1; \{2^{12}, 3^3, 6^6\})$ | 6120 |
| 6 | $O(1; \{2^8, 3^6, 6^6\})$ | 49176 |
| 6 | $O(1; \{2^4, 3^9, 6^6\})$ | 393192 |
| 6 | $O(1; \{3^{12}, 6^6\})$ | 3145752 |
| 6 | $O(1; \{2^{13}, 3, 6^7\})$ | 3096 |
| 6 | $O(1; \{2^9, 3^4, 6^7\})$ | 24552 |
| 6 | $O(1; \{2^5, 3^7, 6^7\})$ | 196632 |
| 6 | $O(1; \{2, 3^{10}, 6^7\})$ | 1572840 |
| 6 | $O(1; \{2^{10}, 3^2, 6^8\})$ | 12312 |
| 6 | $O(1; \{2^6, 3^5, 6^8\})$ | 98280 |
| 6 | $O(1; \{2^2, 3^8, 6^8\})$ | 786456 |
| 6 | $O(1; \{2^{11}, 6^9\})$ | 6120 |
| 6 | $O(1; \{2^7, 3^3, 6^9\})$ | 49176 |
| 6 | $O(1; \{2^3, 3^6, 6^9\})$ | 393192 |
| 6 | $O(1; \{2^8, 3, 6^{10}\})$ | 24552 |
| 6 | $O(1; \{2^4, 3^4, 6^{10}\})$ | 196632 |
| 6 | $O(1; \{3^7, 6^{10}\})$ | 1572840 |
| 6 | $O(1; \{2^5, 3^2, 6^{11}\})$ | 98280 |
| 6 | $O(1; \{2, 3^5, 6^{11}\})$ | 786456 |
| 6 | $O(1; \{2^6, 6^{12}\})$ | 49176 |
| 6 | $O(1; \{2^2, 3^3, 6^{12}\})$ | 393192 |
| 6 | $O(1; \{2^3, 3, 6^{13}\})$ | 196632 |
| 6 | $O(1; \{3^2, 6^{14}\})$ | 786456 |
| 6 | $O(1; \{2, 6^{15}\})$ | 393192 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 6 | $\mathcal{O}(0; \{2^{26}, 3^3\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3^6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^9\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^{12}\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{15}\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{18}\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{21}\})$ | 699050 |
| 6 | $\mathcal{O}(0; \{2^{27}, 3, 6\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{23}, 3^4, 6\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^7, 6\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^{10}, 6\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^{13}, 6\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{16}, 6\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{19}, 6\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{24}, 3^2, 6^2\})$ | 6 |
| 6 | $\mathcal{O}(0; \{2^{20}, 3^5, 6^2\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^8, 6^2\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^{11}, 6^2\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^8, 3^{14}, 6^2\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^4, 3^{17}, 6^2\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{3^{20}, 6^2\})$ | 1398102 |
| 6 | $\mathcal{O}(0; \{2^{25}, 6^3\})$ | 2 |
| 6 | $\mathcal{O}(0; \{2^{21}, 3^3, 6^3\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{17}, 3^6, 6^3\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{13}, 3^9, 6^3\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^9, 3^{12}, 6^3\})$ | 10922 |
| 6 | $\mathcal{O}(0; \{2^5, 3^{15}, 6^3\})$ | 87382 |
| 6 | $\mathcal{O}(0; \{2, 3^{18}, 6^3\})$ | 699050 |
| 6 | $\mathcal{O}(0; \{2^{22}, 3, 6^4\})$ | 10 |
| 6 | $\mathcal{O}(0; \{2^{18}, 3^4, 6^4\})$ | 86 |
| 6 | $\mathcal{O}(0; \{2^{14}, 3^7, 6^4\})$ | 682 |
| 6 | $\mathcal{O}(0; \{2^{10}, 3^{10}, 6^4\})$ | 5462 |
| 6 | $\mathcal{O}(0; \{2^6, 3^{13}, 6^4\})$ | 43690 |
| 6 | $\mathcal{O}(0; \{2^2, 3^{16}, 6^4\})$ | 349526 |
| 6 | $\mathcal{O}(0; \{2^{19}, 3^2, 6^5\})$ | 42 |
| 6 | $\mathcal{O}(0; \{2^{15}, 3^5, 6^5\})$ | 342 |
| 6 | $\mathcal{O}(0; \{2^{11}, 3^8, 6^5\})$ | 2730 |
| 6 | $\mathcal{O}(0; \{2^7, 3^{11}, 6^5\})$ | 21846 |
| 6 | $\mathcal{O}(0; \{2^3, 3^{14}, 6^5\})$ | 174762 |
| 6 | $\mathcal{O}(0; \{2^{20}, 6^6\})$ | 22 |
| 6 | $\mathcal{O}(0; \{2^{16}, 3^3, 6^6\})$ | 170 |
| 6 | $\mathcal{O}(0; \{2^{12}, 3^6, 6^6\})$ | 1366 |
| 6 | $\mathcal{O}(0; \{2^8, 3^9, 6^6\})$ | 10922 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|-------------------------------|---|
| 6 | $O(0; \{2^4, 3^{12}, 6^6\})$ | 87382 |
| 6 | $O(0; \{3^{15}, 6^6\})$ | 699050 |
| 6 | $O(0; \{2^{17}, 3, 6^7\})$ | 86 |
| 6 | $O(0; \{2^{13}, 3^4, 6^7\})$ | 682 |
| 6 | $O(0; \{2^9, 3^7, 6^7\})$ | 5462 |
| 6 | $O(0; \{2^5, 3^{10}, 6^7\})$ | 43690 |
| 6 | $O(0; \{2, 3^{13}, 6^7\})$ | 349526 |
| 6 | $O(0; \{2^{14}, 3^2, 6^8\})$ | 342 |
| 6 | $O(0; \{2^{10}, 3^5, 6^8\})$ | 2730 |
| 6 | $O(0; \{2^6, 3^8, 6^8\})$ | 21846 |
| 6 | $O(0; \{2^2, 3^{11}, 6^8\})$ | 174762 |
| 6 | $O(0; \{2^{15}, 6^9\})$ | 170 |
| 6 | $O(0; \{2^{11}, 3^3, 6^9\})$ | 1366 |
| 6 | $O(0; \{2^7, 3^6, 6^9\})$ | 10922 |
| 6 | $O(0; \{2^3, 3^9, 6^9\})$ | 87382 |
| 6 | $O(0; \{2^{12}, 3, 6^{10}\})$ | 682 |
| 6 | $O(0; \{2^8, 3^4, 6^{10}\})$ | 5462 |
| 6 | $O(0; \{2^4, 3^7, 6^{10}\})$ | 43690 |
| 6 | $O(0; \{3^{10}, 6^{10}\})$ | 349526 |
| 6 | $O(0; \{2^9, 3^2, 6^{11}\})$ | 2730 |
| 6 | $O(0; \{2^5, 3^5, 6^{11}\})$ | 21846 |
| 6 | $O(0; \{2, 3^8, 6^{11}\})$ | 174762 |
| 6 | $O(0; \{2^{10}, 6^{12}\})$ | 1366 |
| 6 | $O(0; \{2^6, 3^3, 6^{12}\})$ | 10922 |
| 6 | $O(0; \{2^2, 3^6, 6^{12}\})$ | 87382 |
| 6 | $O(0; \{2^7, 3, 6^{13}\})$ | 5462 |
| 6 | $O(0; \{2^3, 3^4, 6^{13}\})$ | 43690 |
| 6 | $O(0; \{2^4, 3^2, 6^{14}\})$ | 21846 |
| 6 | $O(0; \{3^5, 6^{14}\})$ | 174762 |
| 6 | $O(0; \{2^5, 6^{15}\})$ | 10922 |
| 6 | $O(0; \{2, 3^3, 6^{15}\})$ | 87382 |
| 6 | $O(0; \{2^2, 3, 6^{16}\})$ | 43690 |
| 6 | $O(0; \{6^{18}\})$ | 87382 |
| 7 | $O(4; \{7^6\})$ | 38428163466 |
| 7 | $O(1; \{7^{13}\})$ | 91424858070 |
| 8 | $O(5; \{8^2\})$ | 4294967296 |
| 8 | $O(4; \{2^4, 8^2\})$ | 67108864 |
| 8 | $O(4; \{2, 4^2, 8^2\})$ | 268435456 |
| 8 | $O(3; \{2^8, 8^2\})$ | 1048576 |
| 8 | $O(3; \{2^5, 4^2, 8^2\})$ | 4194304 |
| 8 | $O(3; \{2^2, 4^4, 8^2\})$ | 16777216 |
| 8 | $O(3; \{2^3, 4, 8^4\})$ | 33554432 |
| 8 | $O(3; \{4^3, 8^4\})$ | 134217728 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(3; \{2, 8^6\})$ | 268435456 |
| 8 | $\mathcal{O}(2; \{2^{12}, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(2; \{2^9, 4^2, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(2; \{2^6, 4^4, 8^2\})$ | 262144 |
| 8 | $\mathcal{O}(2; \{2^3, 4^6, 8^2\})$ | 1048576 |
| 8 | $\mathcal{O}(2; \{4^8, 8^2\})$ | 4194304 |
| 8 | $\mathcal{O}(2; \{2^7, 4, 8^4\})$ | 524288 |
| 8 | $\mathcal{O}(2; \{2^4, 4^3, 8^4\})$ | 2097152 |
| 8 | $\mathcal{O}(2; \{2, 4^5, 8^4\})$ | 8388608 |
| 8 | $\mathcal{O}(2; \{2^5, 8^6\})$ | 4194304 |
| 8 | $\mathcal{O}(2; \{2^2, 4^2, 8^6\})$ | 16777216 |
| 8 | $\mathcal{O}(2; \{4, 8^8\})$ | 134217728 |
| 8 | $\mathcal{O}(1; \{2^{16}, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(1; \{2^{13}, 4^2, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(1; \{2^{10}, 4^4, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(1; \{2^7, 4^6, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(1; \{2^4, 4^8, 8^2\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2, 4^{10}, 8^2\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{2^{11}, 4, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(1; \{2^8, 4^3, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(1; \{2^5, 4^5, 8^4\})$ | 131072 |
| 8 | $\mathcal{O}(1; \{2^2, 4^7, 8^4\})$ | 524288 |
| 8 | $\mathcal{O}(1; \{2^9, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(1; \{2^6, 4^2, 8^6\})$ | 262144 |
| 8 | $\mathcal{O}(1; \{2^3, 4^4, 8^6\})$ | 1048576 |
| 8 | $\mathcal{O}(1; \{4^6, 8^6\})$ | 4194304 |
| 8 | $\mathcal{O}(1; \{2^4, 4, 8^8\})$ | 2097152 |
| 8 | $\mathcal{O}(1; \{2, 4^3, 8^8\})$ | 8388608 |
| 8 | $\mathcal{O}(1; \{2^2, 8^{10}\})$ | 16777216 |
| 8 | $\mathcal{O}(0; \{2^{20}, 8^2\})$ | 4 |
| 8 | $\mathcal{O}(0; \{2^{17}, 4^2, 8^2\})$ | 16 |
| 8 | $\mathcal{O}(0; \{2^{14}, 4^4, 8^2\})$ | 64 |
| 8 | $\mathcal{O}(0; \{2^{11}, 4^6, 8^2\})$ | 256 |
| 8 | $\mathcal{O}(0; \{2^8, 4^8, 8^2\})$ | 1024 |
| 8 | $\mathcal{O}(0; \{2^5, 4^{10}, 8^2\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^2, 4^{12}, 8^2\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^{15}, 4, 8^4\})$ | 128 |
| 8 | $\mathcal{O}(0; \{2^{12}, 4^3, 8^4\})$ | 512 |
| 8 | $\mathcal{O}(0; \{2^9, 4^5, 8^4\})$ | 2048 |
| 8 | $\mathcal{O}(0; \{2^6, 4^7, 8^4\})$ | 8192 |
| 8 | $\mathcal{O}(0; \{2^3, 4^9, 8^4\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{4^{11}, 8^4\})$ | 131072 |
| 8 | $\mathcal{O}(0; \{2^{13}, 8^6\})$ | 1024 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 8 | $\mathcal{O}(0; \{2^{10}, 4^2, 8^6\})$ | 4096 |
| 8 | $\mathcal{O}(0; \{2^7, 4^4, 8^6\})$ | 16384 |
| 8 | $\mathcal{O}(0; \{2^4, 4^6, 8^6\})$ | 65536 |
| 8 | $\mathcal{O}(0; \{2, 4^8, 8^6\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{2^8, 4, 8^8\})$ | 32768 |
| 8 | $\mathcal{O}(0; \{2^5, 4^3, 8^8\})$ | 131072 |
| 8 | $\mathcal{O}(0; \{2^2, 4^5, 8^8\})$ | 524288 |
| 8 | $\mathcal{O}(0; \{2^6, 8^{10}\})$ | 262144 |
| 8 | $\mathcal{O}(0; \{2^3, 4^2, 8^{10}\})$ | 1048576 |
| 8 | $\mathcal{O}(0; \{4^4, 8^{10}\})$ | 4194304 |
| 8 | $\mathcal{O}(0; \{2, 4, 8^{12}\})$ | 8388608 |
| 9 | $\mathcal{O}(4; \{3^4\})$ | 258240960 |
| 9 | $\mathcal{O}(4; \{9^3\})$ | 774840978 |
| 9 | $\mathcal{O}(3; \{3^7\})$ | 22289904 |
| 9 | $\mathcal{O}(3; \{3^3, 9^3\})$ | 76527504 |
| 9 | $\mathcal{O}(2; \{3^{10}\})$ | 2216160 |
| 9 | $\mathcal{O}(2; \{3^6, 9^3\})$ | 7558272 |
| 9 | $\mathcal{O}(2; \{3^2, 9^6\})$ | 140300424 |
| 9 | $\mathcal{O}(1; \{3^{13}\})$ | 196560 |
| 9 | $\mathcal{O}(1; \{3^9, 9^3\})$ | 746496 |
| 9 | $\mathcal{O}(1; \{3^5, 9^6\})$ | 13856832 |
| 9 | $\mathcal{O}(1; \{3, 9^9\})$ | 180689940 |
| 9 | $\mathcal{O}(0; \{3^{12}, 9^3\})$ | 73728 |
| 9 | $\mathcal{O}(0; \{3^8, 9^6\})$ | 1368576 |
| 9 | $\mathcal{O}(0; \{3^4, 9^9\})$ | 17845920 |
| 9 | $\mathcal{O}(0; \{9^{12}\})$ | 241982802 |
| 10 | $\mathcal{O}(4; \{10^2\})$ | 400000000 |
| 10 | $\mathcal{O}(3; \{2, 5^3, 10\})$ | 52000000 |
| 10 | $\mathcal{O}(3; \{2^4, 10^2\})$ | 4000000 |
| 10 | $\mathcal{O}(2; \{2^2, 5^6\})$ | 8200000 |
| 10 | $\mathcal{O}(2; \{2^5, 5^3, 10\})$ | 520000 |
| 10 | $\mathcal{O}(2; \{2^8, 10^2\})$ | 40000 |
| 10 | $\mathcal{O}(2; \{5^5, 10^2\})$ | 32760000 |
| 10 | $\mathcal{O}(2; \{2^3, 5^2, 10^3\})$ | 2040000 |
| 10 | $\mathcal{O}(2; \{2, 5, 10^5\})$ | 8200000 |
| 10 | $\mathcal{O}(1; \{2^6, 5^6\})$ | 82000 |
| 10 | $\mathcal{O}(1; \{2^9, 5^3, 10\})$ | 5200 |
| 10 | $\mathcal{O}(1; \{2, 5^8, 10\})$ | 5242800 |
| 10 | $\mathcal{O}(1; \{2^{12}, 10^2\})$ | 400 |
| 10 | $\mathcal{O}(1; \{2^4, 5^5, 10^2\})$ | 327600 |
| 10 | $\mathcal{O}(1; \{2^7, 5^2, 10^3\})$ | 20400 |
| 10 | $\mathcal{O}(1; \{2^2, 5^4, 10^4\})$ | 1310800 |
| 10 | $\mathcal{O}(1; \{2^5, 5, 10^5\})$ | 82000 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 10 | $\mathcal{O}(1; \{5^3, 10^6\})$ | 5242800 |
| 10 | $\mathcal{O}(1; \{2^3, 10^7\})$ | 327600 |
| 10 | $\mathcal{O}(0; \{2^{10}, 5^6\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2^2, 5^{11}\})$ | 838860 |
| 10 | $\mathcal{O}(0; \{2^{13}, 5^3, 10\})$ | 52 |
| 10 | $\mathcal{O}(0; \{2^5, 5^8, 10\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^{16}, 10^2\})$ | 4 |
| 10 | $\mathcal{O}(0; \{2^8, 5^5, 10^2\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{5^{10}, 10^2\})$ | 3355444 |
| 10 | $\mathcal{O}(0; \{2^{11}, 5^2, 10^3\})$ | 204 |
| 10 | $\mathcal{O}(0; \{2^3, 5^7, 10^3\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{2^6, 5^4, 10^4\})$ | 13108 |
| 10 | $\mathcal{O}(0; \{2^9, 5, 10^5\})$ | 820 |
| 10 | $\mathcal{O}(0; \{2, 5^6, 10^5\})$ | 838860 |
| 10 | $\mathcal{O}(0; \{2^4, 5^3, 10^6\})$ | 52428 |
| 10 | $\mathcal{O}(0; \{2^7, 10^7\})$ | 3276 |
| 10 | $\mathcal{O}(0; \{2^2, 5^2, 10^8\})$ | 209716 |
| 10 | $\mathcal{O}(0; \{5, 10^{10}\})$ | 838860 |
| 11 | $\mathcal{O}(0; \{11^{10}\})$ | 909090910 |
| 12 | $\mathcal{O}(3; \{2^2, 4^2\})$ | 5963776 |
| 12 | $\mathcal{O}(3; \{4, 6, 12\})$ | 11943936 |
| 12 | $\mathcal{O}(3; \{3, 12^2\})$ | 11943936 |
| 12 | $\mathcal{O}(2; \{2^6, 4^2\})$ | 40960 |
| 12 | $\mathcal{O}(2; \{2^2, 3^3, 4^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^3, 4^4\})$ | 163840 |
| 12 | $\mathcal{O}(2; \{4^6\})$ | 655360 |
| 12 | $\mathcal{O}(2; \{2^3, 3, 4^2, 6\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3, 4^4, 6\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{3^2, 4^2, 6^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2, 4^2, 6^3\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{2^3, 3^2, 4, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3^2, 4^3, 12\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{2^4, 4, 6, 12\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3^3, 4, 6, 12\})$ | 414720 |
| 12 | $\mathcal{O}(2; \{2, 4^3, 6, 12\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{2, 3, 4, 6^2, 12\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^4, 3, 12^2\})$ | 82944 |
| 12 | $\mathcal{O}(2; \{3^4, 12^2\})$ | 912384 |
| 12 | $\mathcal{O}(2; \{2, 3, 4^2, 12^2\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{2, 3^2, 6, 12^2\})$ | 414720 |
| 12 | $\mathcal{O}(2; \{2^2, 6^2, 12^2\})$ | 248832 |
| 12 | $\mathcal{O}(2; \{2^2, 4, 12^3\})$ | 331776 |
| 12 | $\mathcal{O}(2; \{6, 12^4\})$ | 1658880 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(1; \{2^{10}, 4^2\})$ | 256 |
| 12 | $\mathcal{O}(1; \{2^6, 3^3, 4^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^2, 3^6, 4^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^7, 4^4\})$ | 1024 |
| 12 | $\mathcal{O}(1; \{2^3, 3^3, 4^4\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^4, 4^6\})$ | 4096 |
| 12 | $\mathcal{O}(1; \{3^3, 4^6\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2, 4^8\})$ | 16384 |
| 12 | $\mathcal{O}(1; \{2^7, 3, 4^2, 6\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^3, 3^4, 4^2, 6\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{2^4, 3, 4^4, 6\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^4, 4^4, 6\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2, 3, 4^6, 6\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 4^2, 6^2\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{3^5, 4^2, 6^2\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^4, 6^2\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^5, 4^2, 6^3\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4^2, 6^3\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^2, 4^4, 6^3\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^2, 6^4\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{4^2, 6^6\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^7, 3^2, 4, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^3, 3^5, 4, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^4, 3^2, 4^3, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{3^5, 4^3, 12\})$ | 25344 |
| 12 | $\mathcal{O}(1; \{2, 3^2, 4^5, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^8, 4, 6, 12\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^4, 3^3, 4, 6, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{3^6, 4, 6, 12\})$ | 24768 |
| 12 | $\mathcal{O}(1; \{2^5, 4^3, 6, 12\})$ | 2304 |
| 12 | $\mathcal{O}(1; \{2, 3^3, 4^3, 6, 12\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{2^2, 4^5, 6, 12\})$ | 9216 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 4, 6^2, 12\})$ | 1728 |
| 12 | $\mathcal{O}(1; \{2, 3^4, 4, 6^2, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^2, 3, 4^3, 6^2, 12\})$ | 6912 |
| 12 | $\mathcal{O}(1; \{2^2, 3^2, 4, 6^3, 12\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{2^3, 4, 6^4, 12\})$ | 2880 |
| 12 | $\mathcal{O}(1; \{4^3, 6^4, 12\})$ | 11520 |
| 12 | $\mathcal{O}(1; \{3, 4, 6^5, 12\})$ | 12096 |
| 12 | $\mathcal{O}(1; \{2^8, 3, 12^2\})$ | 576 |
| 12 | $\mathcal{O}(1; \{2^4, 3^4, 12^2\})$ | 6336 |
| 12 | $\mathcal{O}(1; \{3^7, 12^2\})$ | 48960 |
| 12 | $\mathcal{O}(1; \{2^5, 3, 4^2, 12^2\})$ | 2304 |

Continued on next page

Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(O), \mathbb{Z}_\ell)$ |
|----------------------------|------------------------------------|---|
| 12 | $O(1; \{2, 3^4, 4^2, 12^2\})$ | 25344 |
| 12 | $O(1; \{2^2, 3, 4^4, 12^2\})$ | 9216 |
| 12 | $O(1; \{2^5, 3^2, 6, 12^2\})$ | 2880 |
| 12 | $O(1; \{2, 3^5, 6, 12^2\})$ | 24768 |
| 12 | $O(1; \{2^2, 3^2, 4^2, 6, 12^2\})$ | 11520 |
| 12 | $O(1; \{2^6, 6^2, 12^2\})$ | 1728 |
| 12 | $O(1; \{2^2, 3^3, 6^2, 12^2\})$ | 12096 |
| 12 | $O(1; \{2^3, 4^2, 6^2, 12^2\})$ | 6912 |
| 12 | $O(1; \{4^4, 6^2, 12^2\})$ | 27648 |
| 12 | $O(1; \{2^3, 3, 6^3, 12^2\})$ | 6336 |
| 12 | $O(1; \{3, 4^2, 6^3, 12^2\})$ | 25344 |
| 12 | $O(1; \{3^2, 6^4, 12^2\})$ | 24768 |
| 12 | $O(1; \{2, 6^5, 12^2\})$ | 12096 |
| 12 | $O(1; \{2^6, 4, 12^3\})$ | 2304 |
| 12 | $O(1; \{2^2, 3^3, 4, 12^3\})$ | 25344 |
| 12 | $O(1; \{2^3, 4^3, 12^3\})$ | 9216 |
| 12 | $O(1; \{4^5, 12^3\})$ | 36864 |
| 12 | $O(1; \{2^3, 3, 4, 6, 12^3\})$ | 11520 |
| 12 | $O(1; \{3, 4^3, 6, 12^3\})$ | 46080 |
| 12 | $O(1; \{3^2, 4, 6^2, 12^3\})$ | 48384 |
| 12 | $O(1; \{2, 4, 6^3, 12^3\})$ | 25344 |
| 12 | $O(1; \{2^3, 3^2, 12^4\})$ | 25344 |
| 12 | $O(1; \{3^2, 4^2, 12^4\})$ | 101376 |
| 12 | $O(1; \{2^4, 6, 12^4\})$ | 11520 |
| 12 | $O(1; \{3^3, 6, 12^4\})$ | 99072 |
| 12 | $O(1; \{2, 4^2, 6, 12^4\})$ | 46080 |
| 12 | $O(1; \{2, 3, 6^2, 12^4\})$ | 48384 |
| 12 | $O(1; \{2, 3, 4, 12^5\})$ | 101376 |
| 12 | $O(1; \{2^2, 12^6\})$ | 101376 |
| 12 | $O(0; \{2^{10}, 3^3, 4^2\})$ | 4 |
| 12 | $O(0; \{2^6, 3^6, 4^2\})$ | 44 |
| 12 | $O(0; \{2^2, 3^9, 4^2\})$ | 340 |
| 12 | $O(0; \{2^7, 3^3, 4^4\})$ | 16 |
| 12 | $O(0; \{2^3, 3^6, 4^4\})$ | 176 |
| 12 | $O(0; \{2^4, 3^3, 4^6\})$ | 64 |
| 12 | $O(0; \{3^6, 4^6\})$ | 704 |
| 12 | $O(0; \{2, 3^3, 4^8\})$ | 256 |
| 12 | $O(0; \{2^{11}, 3, 4^2, 6\})$ | 4 |
| 12 | $O(0; \{2^7, 3^4, 4^2, 6\})$ | 20 |
| 12 | $O(0; \{2^3, 3^7, 4^2, 6\})$ | 172 |
| 12 | $O(0; \{2^8, 3, 4^4, 6\})$ | 16 |
| 12 | $O(0; \{2^4, 3^4, 4^4, 6\})$ | 80 |
| 12 | $O(0; \{3^7, 4^4, 6\})$ | 688 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^5, 3, 4^6, 6\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4^6, 6\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^8, 6\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^8, 3^2, 4^2, 6^2\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^4, 3^5, 4^2, 6^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^8, 4^2, 6^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^4, 6^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^4, 6^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^6, 6^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{2^9, 4^2, 6^3\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4^2, 6^3\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4^2, 6^3\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^6, 4^4, 6^3\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^4, 6^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 4^6, 6^3\})$ | 64 |
| 12 | $\mathcal{O}(0; \{4^8, 6^3\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^2, 6^4\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^2, 6^4\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^4, 6^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3, 4^6, 6^4\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^2, 6^5\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^2, 4^4, 6^5\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 4^2, 6^6\})$ | 44 |
| 12 | $\mathcal{O}(0; \{3^3, 4^2, 6^6\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2, 4^4, 6^6\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^2, 6^7\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^{11}, 3^2, 4, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^7, 3^5, 4, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^3, 3^8, 4, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^8, 3^2, 4^3, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^4, 3^5, 4^3, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^8, 4^3, 12\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^5, 3^2, 4^5, 12\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2, 3^5, 4^5, 12\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4^7, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{2^{12}, 4, 6, 12\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^8, 3^3, 4, 6, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^4, 3^6, 4, 6, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3^9, 4, 6, 12\})$ | 1364 |
| 12 | $\mathcal{O}(0; \{2^9, 4^3, 6, 12\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^5, 3^3, 4^3, 6, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2, 3^6, 4^3, 6, 12\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^6, 4^5, 6, 12\})$ | 64 |

Continued on next page

Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 4^5, 6, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^3, 4^7, 6, 12\})$ | 256 |
| 12 | $\mathcal{O}(0; \{4^9, 6, 12\})$ | 1024 |
| 12 | $\mathcal{O}(0; \{2^9, 3, 4, 6^2, 12\})$ | 12 |
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 4, 6^2, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 4, 6^2, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^3, 6^2, 12\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^3, 6^2, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^5, 6^2, 12\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3, 4^7, 6^2, 12\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4, 6^3, 12\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4, 6^3, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^3, 6^3, 12\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^2, 4^5, 6^3, 12\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^7, 4, 6^4, 12\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4, 6^4, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^4, 4^3, 6^4, 12\})$ | 80 |
| 12 | $\mathcal{O}(0; \{3^3, 4^3, 6^4, 12\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2, 4^5, 6^4, 12\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4, 6^5, 12\})$ | 84 |
| 12 | $\mathcal{O}(0; \{3^4, 4, 6^5, 12\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^3, 6^5, 12\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4, 6^6, 12\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^2, 4, 6^7, 12\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2^{12}, 3, 12^2\})$ | 4 |
| 12 | $\mathcal{O}(0; \{2^8, 3^4, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^4, 3^7, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{3^{10}, 12^2\})$ | 2732 |
| 12 | $\mathcal{O}(0; \{2^9, 3, 4^2, 12^2\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^5, 3^4, 4^2, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^7, 4^2, 12^2\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^6, 3, 4^4, 12^2\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^2, 3^4, 4^4, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 4^6, 12^2\})$ | 256 |
| 12 | $\mathcal{O}(0; \{3, 4^8, 12^2\})$ | 1024 |
| 12 | $\mathcal{O}(0; \{2^9, 3^2, 6, 12^2\})$ | 20 |
| 12 | $\mathcal{O}(0; \{2^5, 3^5, 6, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{2, 3^8, 6, 12^2\})$ | 1364 |
| 12 | $\mathcal{O}(0; \{2^6, 3^2, 4^2, 6, 12^2\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^2, 3^5, 4^2, 6, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^3, 3^2, 4^4, 6, 12^2\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3^2, 4^6, 6, 12^2\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^{10}, 6^2, 12^2\})$ | 12 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 6^2, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 6^2, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^7, 4^2, 6^2, 12^2\})$ | 48 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^2, 6^2, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^4, 4^4, 6^2, 12^2\})$ | 192 |
| 12 | $\mathcal{O}(0; \{3^3, 4^4, 6^2, 12^2\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2, 4^6, 6^2, 12^2\})$ | 768 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 6^3, 12^2\})$ | 44 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 6^3, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^2, 6^3, 12^2\})$ | 176 |
| 12 | $\mathcal{O}(0; \{3^4, 4^2, 6^3, 12^2\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^4, 6^3, 12^2\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 6^4, 12^2\})$ | 172 |
| 12 | $\mathcal{O}(0; \{3^5, 6^4, 12^2\})$ | 1364 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^2, 6^4, 12^2\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^5, 6^5, 12^2\})$ | 84 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 6^5, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^2, 4^2, 6^5, 12^2\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 6^6, 12^2\})$ | 340 |
| 12 | $\mathcal{O}(0; \{6^8, 12^2\})$ | 684 |
| 12 | $\mathcal{O}(0; \{2^{10}, 4, 12^3\})$ | 16 |
| 12 | $\mathcal{O}(0; \{2^6, 3^3, 4, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^2, 3^6, 4, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^7, 4^3, 12^3\})$ | 64 |
| 12 | $\mathcal{O}(0; \{2^3, 3^3, 4^3, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^4, 4^5, 12^3\})$ | 256 |
| 12 | $\mathcal{O}(0; \{3^3, 4^5, 12^3\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2, 4^7, 12^3\})$ | 1024 |
| 12 | $\mathcal{O}(0; \{2^7, 3, 4, 6, 12^3\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^3, 3^4, 4, 6, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{2^4, 3, 4^3, 6, 12^3\})$ | 320 |
| 12 | $\mathcal{O}(0; \{3^4, 4^3, 6, 12^3\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2, 3, 4^5, 6, 12^3\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4, 6^2, 12^3\})$ | 336 |
| 12 | $\mathcal{O}(0; \{3^5, 4, 6^2, 12^3\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^3, 6^2, 12^3\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^5, 4, 6^3, 12^3\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4, 6^3, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^2, 4^3, 6^3, 12^3\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4, 6^4, 12^3\})$ | 688 |
| 12 | $\mathcal{O}(0; \{4, 6^6, 12^3\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^7, 3^2, 12^4\})$ | 176 |
| 12 | $\mathcal{O}(0; \{2^3, 3^5, 12^4\})$ | 1360 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 12 | $\mathcal{O}(0; \{2^4, 3^2, 4^2, 12^4\})$ | 704 |
| 12 | $\mathcal{O}(0; \{3^5, 4^2, 12^4\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2, 3^2, 4^4, 12^4\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2^8, 6, 12^4\})$ | 80 |
| 12 | $\mathcal{O}(0; \{2^4, 3^3, 6, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{3^6, 6, 12^4\})$ | 5456 |
| 12 | $\mathcal{O}(0; \{2^5, 4^2, 6, 12^4\})$ | 320 |
| 12 | $\mathcal{O}(0; \{2, 3^3, 4^2, 6, 12^4\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^2, 4^4, 6, 12^4\})$ | 1280 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 6^2, 12^4\})$ | 336 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 6^2, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^2, 6^2, 12^4\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 6^3, 12^4\})$ | 1360 |
| 12 | $\mathcal{O}(0; \{2^3, 6^4, 12^4\})$ | 688 |
| 12 | $\mathcal{O}(0; \{4^2, 6^4, 12^4\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{3, 6^5, 12^4\})$ | 2736 |
| 12 | $\mathcal{O}(0; \{2^5, 3, 4, 12^5\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2, 3^4, 4, 12^5\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2^2, 3, 4^3, 12^5\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{2^2, 3^2, 4, 6, 12^5\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{2^3, 4, 6^2, 12^5\})$ | 1344 |
| 12 | $\mathcal{O}(0; \{4^3, 6^2, 12^5\})$ | 5376 |
| 12 | $\mathcal{O}(0; \{3, 4, 6^3, 12^5\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2^6, 12^6\})$ | 704 |
| 12 | $\mathcal{O}(0; \{2^2, 3^3, 12^6\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{2^3, 4^2, 12^6\})$ | 2816 |
| 12 | $\mathcal{O}(0; \{4^4, 12^6\})$ | 11264 |
| 12 | $\mathcal{O}(0; \{2^3, 3, 6, 12^6\})$ | 2752 |
| 12 | $\mathcal{O}(0; \{3, 4^2, 6, 12^6\})$ | 11008 |
| 12 | $\mathcal{O}(0; \{3^2, 6^2, 12^6\})$ | 10944 |
| 12 | $\mathcal{O}(0; \{2, 6^3, 12^6\})$ | 5440 |
| 12 | $\mathcal{O}(0; \{3^2, 4, 12^7\})$ | 21760 |
| 12 | $\mathcal{O}(0; \{2, 4, 6, 12^7\})$ | 11008 |
| 12 | $\mathcal{O}(0; \{2, 3, 12^8\})$ | 21760 |
| 13 | $\mathcal{O}(4; \emptyset)$ | 815730720 |
| 14 | $\mathcal{O}(2; \{2^2, 7^3\})$ | 1152480 |
| 14 | $\mathcal{O}(2; \{7^2, 14^2\})$ | 7145376 |
| 14 | $\mathcal{O}(1; \{2^6, 7^3\})$ | 5880 |
| 14 | $\mathcal{O}(1; \{2^4, 7^2, 14^2\})$ | 36456 |
| 14 | $\mathcal{O}(1; \{2^2, 7, 14^4\})$ | 217560 |
| 14 | $\mathcal{O}(1; \{14^6\})$ | 1306536 |
| 14 | $\mathcal{O}(0; \{2^{10}, 7^3\})$ | 30 |
| 14 | $\mathcal{O}(0; \{2^3, 7^6, 14\})$ | 39990 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 14 | $\mathcal{O}(0; \{2^8, 7^2, 14^2\})$ | 186 |
| 14 | $\mathcal{O}(0; \{2, 7^5, 14^3\})$ | 239946 |
| 14 | $\mathcal{O}(0; \{2^6, 7, 14^4\})$ | 1110 |
| 14 | $\mathcal{O}(0; \{2^4, 14^6\})$ | 6666 |
| 15 | $\mathcal{O}(2; \{5^4\})$ | 2600000 |
| 15 | $\mathcal{O}(2; \{3, 5^2, 15\})$ | 1215000 |
| 15 | $\mathcal{O}(2; \{3^2, 15^2\})$ | 1215000 |
| 15 | $\mathcal{O}(1; \{3^3, 5^4\})$ | 23400 |
| 15 | $\mathcal{O}(1; \{3^4, 5^2, 15\})$ | 27000 |
| 15 | $\mathcal{O}(1; \{3^5, 15^2\})$ | 37800 |
| 15 | $\mathcal{O}(1; \{5^3, 15^3\})$ | 369000 |
| 15 | $\mathcal{O}(1; \{3, 5, 15^4\})$ | 459000 |
| 15 | $\mathcal{O}(0; \{3^6, 5^4\})$ | 1144 |
| 15 | $\mathcal{O}(0; \{3^7, 5^2, 15\})$ | 1032 |
| 15 | $\mathcal{O}(0; \{3, 5^7, 15\})$ | 26216 |
| 15 | $\mathcal{O}(0; \{3^8, 15^2\})$ | 1368 |
| 15 | $\mathcal{O}(0; \{3^2, 5^5, 15^2\})$ | 19656 |
| 15 | $\mathcal{O}(0; \{3^3, 5^3, 15^3\})$ | 18040 |
| 15 | $\mathcal{O}(0; \{3^4, 5, 15^4\})$ | 17544 |
| 15 | $\mathcal{O}(0; \{5^2, 15^6\})$ | 288376 |
| 15 | $\mathcal{O}(0; \{3, 15^7\})$ | 281736 |
| 16 | $\mathcal{O}(2; \{2^2, 16^2\})$ | 524288 |
| 16 | $\mathcal{O}(1; \{2^6, 16^2\})$ | 2048 |
| 16 | $\mathcal{O}(1; \{2^3, 4^2, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(1; \{4^4, 16^2\})$ | 32768 |
| 16 | $\mathcal{O}(1; \{2, 4, 8^2, 16^2\})$ | 65536 |
| 16 | $\mathcal{O}(0; \{2^{10}, 16^2\})$ | 8 |
| 16 | $\mathcal{O}(0; \{2^7, 4^2, 16^2\})$ | 32 |
| 16 | $\mathcal{O}(0; \{2^4, 4^4, 16^2\})$ | 128 |
| 16 | $\mathcal{O}(0; \{2, 4^6, 16^2\})$ | 512 |
| 16 | $\mathcal{O}(0; \{2^5, 4, 8^2, 16^2\})$ | 256 |
| 16 | $\mathcal{O}(0; \{2^2, 4^3, 8^2, 16^2\})$ | 1024 |
| 16 | $\mathcal{O}(0; \{2^3, 8^4, 16^2\})$ | 2048 |
| 16 | $\mathcal{O}(0; \{4^2, 8^4, 16^2\})$ | 8192 |
| 16 | $\mathcal{O}(0; \{2^3, 4, 8, 16^4\})$ | 4096 |
| 16 | $\mathcal{O}(0; \{4^3, 8, 16^4\})$ | 16384 |
| 16 | $\mathcal{O}(0; \{2, 8^3, 16^4\})$ | 32768 |
| 16 | $\mathcal{O}(0; \{2, 4, 16^6\})$ | 65536 |
| 17 | $\mathcal{O}(0; \{17^7\})$ | 15790320 |
| 18 | $\mathcal{O}(2; \{2^2, 3^2\})$ | 207360 |
| 18 | $\mathcal{O}(2; \{3, 6^2\})$ | 207360 |
| 18 | $\mathcal{O}(2; \{2, 9, 18\})$ | 629856 |
| 18 | $\mathcal{O}(1; \{2^6, 3^2\})$ | 576 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 18 | $\mathcal{O}(1; \{2^2, 3^5\})$ | 2880 |
| 18 | $\mathcal{O}(1; \{2^3, 3^3, 6\})$ | 1728 |
| 18 | $\mathcal{O}(1; \{2^4, 3, 6^2\})$ | 576 |
| 18 | $\mathcal{O}(1; \{3^4, 6^2\})$ | 6336 |
| 18 | $\mathcal{O}(1; \{2, 3^2, 6^3\})$ | 2880 |
| 18 | $\mathcal{O}(1; \{2^2, 6^4\})$ | 1728 |
| 18 | $\mathcal{O}(1; \{2^2, 3, 9^3\})$ | 11664 |
| 18 | $\mathcal{O}(1; \{6^2, 9^3\})$ | 23328 |
| 18 | $\mathcal{O}(1; \{2^5, 9, 18\})$ | 1944 |
| 18 | $\mathcal{O}(1; \{2, 3^3, 9, 18\})$ | 15552 |
| 18 | $\mathcal{O}(1; \{2^2, 3, 6, 9, 18\})$ | 7776 |
| 18 | $\mathcal{O}(1; \{6^3, 9, 18\})$ | 15552 |
| 18 | $\mathcal{O}(1; \{3, 9^2, 18^2\})$ | 104976 |
| 18 | $\mathcal{O}(1; \{2^3, 18^3\})$ | 5832 |
| 18 | $\mathcal{O}(1; \{3, 6, 18^3\})$ | 23328 |
| 18 | $\mathcal{O}(0; \{2^6, 3, 9^3\})$ | 36 |
| 18 | $\mathcal{O}(0; \{2^2, 3^4, 9^3\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2^3, 3^2, 6, 9^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^4, 6^2, 9^3\})$ | 72 |
| 18 | $\mathcal{O}(0; \{3^3, 6^2, 9^3\})$ | 576 |
| 18 | $\mathcal{O}(0; \{2, 3, 6^3, 9^3\})$ | 288 |
| 18 | $\mathcal{O}(0; \{2^2, 9^6\})$ | 5346 |
| 18 | $\mathcal{O}(0; \{2^9, 9, 18\})$ | 6 |
| 18 | $\mathcal{O}(0; \{2^5, 3^3, 9, 18\})$ | 48 |
| 18 | $\mathcal{O}(0; \{2, 3^6, 9, 18\})$ | 384 |
| 18 | $\mathcal{O}(0; \{2^6, 3, 6, 9, 18\})$ | 24 |
| 18 | $\mathcal{O}(0; \{2^2, 3^4, 6, 9, 18\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2^3, 3^2, 6^2, 9, 18\})$ | 96 |
| 18 | $\mathcal{O}(0; \{2^4, 6^3, 9, 18\})$ | 48 |
| 18 | $\mathcal{O}(0; \{3^3, 6^3, 9, 18\})$ | 384 |
| 18 | $\mathcal{O}(0; \{2, 3, 6^4, 9, 18\})$ | 192 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 9^4, 18\})$ | 3240 |
| 18 | $\mathcal{O}(0; \{2^2, 6, 9^4, 18\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 9^2, 18^2\})$ | 324 |
| 18 | $\mathcal{O}(0; \{3^4, 9^2, 18^2\})$ | 2592 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6, 9^2, 18^2\})$ | 1296 |
| 18 | $\mathcal{O}(0; \{2^2, 6^2, 9^2, 18^2\})$ | 648 |
| 18 | $\mathcal{O}(0; \{9^5, 18^2\})$ | 30618 |
| 18 | $\mathcal{O}(0; \{2^7, 18^3\})$ | 18 |
| 18 | $\mathcal{O}(0; \{2^3, 3^3, 18^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{2^4, 3, 6, 18^3\})$ | 72 |
| 18 | $\mathcal{O}(0; \{3^4, 6, 18^3\})$ | 576 |
| 18 | $\mathcal{O}(0; \{2, 3^2, 6^2, 18^3\})$ | 288 |

Continued on next page

Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 18 | $\mathcal{O}(0; \{2^2, 6^3, 18^3\})$ | 144 |
| 18 | $\mathcal{O}(0; \{6, 9^3, 18^3\})$ | 10692 |
| 18 | $\mathcal{O}(0; \{2^2, 3, 9, 18^4\})$ | 1620 |
| 18 | $\mathcal{O}(0; \{6^2, 9, 18^4\})$ | 3240 |
| 18 | $\mathcal{O}(0; \{3, 18^6\})$ | 10692 |
| 20 | $\mathcal{O}(2; \{20^2\})$ | 1280000 |
| 20 | $\mathcal{O}(1; \{4^2, 5^3\})$ | 9600 |
| 20 | $\mathcal{O}(1; \{2, 4, 5, 10, 20\})$ | 9600 |
| 20 | $\mathcal{O}(1; \{2^4, 20^2\})$ | 3200 |
| 20 | $\mathcal{O}(1; \{2, 4^2, 20^2\})$ | 12800 |
| 20 | $\mathcal{O}(0; \{2^4, 4^2, 5^3\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2, 4^4, 5^3\})$ | 96 |
| 20 | $\mathcal{O}(0; \{2^2, 4^2, 5^2, 10^2\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4^2, 5, 10^4\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^2, 4, 5^4, 20\})$ | 408 |
| 20 | $\mathcal{O}(0; \{2^5, 4, 5, 10, 20\})$ | 24 |
| 20 | $\mathcal{O}(0; \{2^2, 4^3, 5, 10, 20\})$ | 96 |
| 20 | $\mathcal{O}(0; \{4, 5^3, 10^2, 20\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^3, 4, 10^3, 20\})$ | 104 |
| 20 | $\mathcal{O}(0; \{4^3, 10^3, 20\})$ | 416 |
| 20 | $\mathcal{O}(0; \{2^8, 20^2\})$ | 8 |
| 20 | $\mathcal{O}(0; \{2^5, 4^2, 20^2\})$ | 32 |
| 20 | $\mathcal{O}(0; \{2^2, 4^4, 20^2\})$ | 128 |
| 20 | $\mathcal{O}(0; \{5^5, 20^2\})$ | 6552 |
| 20 | $\mathcal{O}(0; \{2^3, 5^2, 10, 20^2\})$ | 408 |
| 20 | $\mathcal{O}(0; \{4^2, 5^2, 10, 20^2\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{2, 5, 10^3, 20^2\})$ | 1640 |
| 20 | $\mathcal{O}(0; \{2^3, 4, 5, 20^3\})$ | 416 |
| 20 | $\mathcal{O}(0; \{4^3, 5, 20^3\})$ | 1664 |
| 20 | $\mathcal{O}(0; \{2, 4, 10^2, 20^3\})$ | 1632 |
| 20 | $\mathcal{O}(0; \{2, 5^2, 20^4\})$ | 6560 |
| 21 | $\mathcal{O}(2; \{7^2\})$ | 1152480 |
| 21 | $\mathcal{O}(1; \{3^3, 7^2\})$ | 5292 |
| 21 | $\mathcal{O}(1; \{7, 21^3\})$ | 164052 |
| 21 | $\mathcal{O}(0; \{3^6, 7^2\})$ | 132 |
| 21 | $\mathcal{O}(0; \{3^2, 7^4, 21\})$ | 2220 |
| 21 | $\mathcal{O}(0; \{3^3, 7, 21^3\})$ | 4092 |
| 21 | $\mathcal{O}(0; \{21^6\})$ | 146652 |
| 22 | $\mathcal{O}(0; \{2^2, 11^5\})$ | 9090 |
| 22 | $\mathcal{O}(0; \{11^4, 22^2\})$ | 90910 |
| 24 | $\mathcal{O}(1; \{2^3, 8^2\})$ | 2048 |
| 24 | $\mathcal{O}(1; \{4^2, 8^2\})$ | 8192 |
| 24 | $\mathcal{O}(1; \{3, 6, 8^2\})$ | 4608 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 24 | $\mathcal{O}(1; \{3, 4, 8, 24\})$ | 9216 |
| 24 | $\mathcal{O}(1; \{2, 8, 12, 24\})$ | 9216 |
| 24 | $\mathcal{O}(1; \{3^2, 24^2\})$ | 13824 |
| 24 | $\mathcal{O}(1; \{2, 6, 24^2\})$ | 4608 |
| 24 | $\mathcal{O}(0; \{2^3, 3^3, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^3, 4^2, 8^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^4, 3, 6, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{3^4, 6, 8^2\})$ | 40 |
| 24 | $\mathcal{O}(0; \{2, 3, 4^2, 6, 8^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 6^2, 8^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{2^2, 6^3, 8^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 4, 8^2, 12\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^2, 4, 6, 8^2, 12\})$ | 32 |
| 24 | $\mathcal{O}(0; \{6, 8^4, 12\})$ | 256 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 8^2, 12^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{6^2, 8^2, 12^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{4, 8^2, 12^3\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^4, 3, 4, 8, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{3^4, 4, 8, 24\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2, 3, 4^3, 8, 24\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 4, 6, 8, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{2^2, 4, 6^2, 8, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 8^3, 24\})$ | 128 |
| 24 | $\mathcal{O}(0; \{6^2, 8^3, 24\})$ | 128 |
| 24 | $\mathcal{O}(0; \{2^5, 8, 12, 24\})$ | 16 |
| 24 | $\mathcal{O}(0; \{2, 3^3, 8, 12, 24\})$ | 80 |
| 24 | $\mathcal{O}(0; \{2^2, 4^2, 8, 12, 24\})$ | 64 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 6, 8, 12, 24\})$ | 48 |
| 24 | $\mathcal{O}(0; \{6^3, 8, 12, 24\})$ | 80 |
| 24 | $\mathcal{O}(0; \{4, 8^3, 12, 24\})$ | 512 |
| 24 | $\mathcal{O}(0; \{4, 6, 8, 12^2, 24\})$ | 192 |
| 24 | $\mathcal{O}(0; \{3, 8, 12^3, 24\})$ | 320 |
| 24 | $\mathcal{O}(0; \{2^4, 3^2, 24^2\})$ | 24 |
| 24 | $\mathcal{O}(0; \{3^5, 24^2\})$ | 168 |
| 24 | $\mathcal{O}(0; \{2, 3^2, 4^2, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{2^5, 6, 24^2\})$ | 8 |
| 24 | $\mathcal{O}(0; \{2, 3^3, 6, 24^2\})$ | 88 |
| 24 | $\mathcal{O}(0; \{2^2, 4^2, 6, 24^2\})$ | 32 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 6^2, 24^2\})$ | 40 |
| 24 | $\mathcal{O}(0; \{6^4, 24^2\})$ | 88 |
| 24 | $\mathcal{O}(0; \{4, 6, 8^2, 24^2\})$ | 256 |
| 24 | $\mathcal{O}(0; \{2^2, 3, 4, 12, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{4, 6^2, 12, 24^2\})$ | 160 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---|---|
| 24 | $\mathcal{O}(0; \{3, 8^2, 12, 24^2\})$ | 768 |
| 24 | $\mathcal{O}(0; \{2^3, 12^2, 24^2\})$ | 96 |
| 24 | $\mathcal{O}(0; \{4^2, 12^2, 24^2\})$ | 384 |
| 24 | $\mathcal{O}(0; \{3, 6, 12^2, 24^2\})$ | 352 |
| 24 | $\mathcal{O}(0; \{2^3, 8, 24^3\})$ | 128 |
| 24 | $\mathcal{O}(0; \{4^2, 8, 24^3\})$ | 512 |
| 24 | $\mathcal{O}(0; \{3, 6, 8, 24^3\})$ | 640 |
| 24 | $\mathcal{O}(0; \{3, 4, 24^4\})$ | 1280 |
| 24 | $\mathcal{O}(0; \{2, 12, 24^4\})$ | 1280 |
| 25 | $\mathcal{O}(0; \{5^4, 25^2\})$ | 5120 |
| 26 | $\mathcal{O}(2; \{2^2\})$ | 456960 |
| 26 | $\mathcal{O}(1; \{2^6\})$ | 672 |
| 27 | $\mathcal{O}(1; \{27^3\})$ | 118098 |
| 27 | $\mathcal{O}(0; \{3^3, 27^3\})$ | 1296 |
| 28 | $\mathcal{O}(1; \{7, 28^2\})$ | 47040 |
| 28 | $\mathcal{O}(0; \{2^3, 4^2, 7, 14\})$ | 12 |
| 28 | $\mathcal{O}(0; \{4^4, 7, 14\})$ | 48 |
| 28 | $\mathcal{O}(0; \{2, 4^2, 14^3\})$ | 60 |
| 28 | $\mathcal{O}(0; \{2, 4, 7^3, 28\})$ | 372 |
| 28 | $\mathcal{O}(0; \{2^4, 7, 28^2\})$ | 60 |
| 28 | $\mathcal{O}(0; \{2, 4^2, 7, 28^2\})$ | 240 |
| 28 | $\mathcal{O}(0; \{2^2, 14^2, 28^2\})$ | 372 |
| 28 | $\mathcal{O}(0; \{14, 28^4\})$ | 8880 |
| 30 | $\mathcal{O}(1; \{2^2, 5^2\})$ | 3200 |
| 30 | $\mathcal{O}(1; \{5, 10^2\})$ | 9600 |
| 30 | $\mathcal{O}(1; \{5, 6, 30\})$ | 7200 |
| 30 | $\mathcal{O}(1; \{3, 30^2\})$ | 7200 |
| 30 | $\mathcal{O}(0; \{2^2, 3^3, 5^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2^3, 3, 5^2, 6\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3^2, 5^2, 6^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 5^2, 6^3\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3^3, 5, 10^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 3, 5, 6, 10^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 3, 5^2, 10, 15\})$ | 104 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 10, 15^2\})$ | 72 |
| 30 | $\mathcal{O}(0; \{2^2, 6, 10, 15^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 5, 15^3\})$ | 104 |
| 30 | $\mathcal{O}(0; \{10^2, 15^3\})$ | 408 |
| 30 | $\mathcal{O}(0; \{2^3, 3^2, 5, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{2^4, 5, 6, 30\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3^3, 5, 6, 30\})$ | 40 |
| 30 | $\mathcal{O}(0; \{2, 3, 5, 6^2, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 10^2, 30\})$ | 24 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|--|---|
| 30 | $\mathcal{O}(0; \{2^2, 6, 10^2, 30\})$ | 24 |
| 30 | $\mathcal{O}(0; \{2^2, 5, 10, 15, 30\})$ | 104 |
| 30 | $\mathcal{O}(0; \{10^3, 15, 30\})$ | 408 |
| 30 | $\mathcal{O}(0; \{6, 15^3, 30\})$ | 520 |
| 30 | $\mathcal{O}(0; \{2^4, 3, 30^2\})$ | 8 |
| 30 | $\mathcal{O}(0; \{3^4, 30^2\})$ | 88 |
| 30 | $\mathcal{O}(0; \{2, 3^2, 6, 30^2\})$ | 40 |
| 30 | $\mathcal{O}(0; \{2^2, 6^2, 30^2\})$ | 24 |
| 30 | $\mathcal{O}(0; \{6, 10, 15, 30^2\})$ | 312 |
| 30 | $\mathcal{O}(0; \{5, 15^2, 30^2\})$ | 1224 |
| 30 | $\mathcal{O}(0; \{5, 10, 30^3\})$ | 408 |
| 32 | $\mathcal{O}(1; \{2, 32^2\})$ | 16384 |
| 32 | $\mathcal{O}(0; \{2^5, 32^2\})$ | 16 |
| 32 | $\mathcal{O}(0; \{2^2, 4^2, 32^2\})$ | 64 |
| 32 | $\mathcal{O}(0; \{4, 8^2, 32^2\})$ | 512 |
| 33 | $\mathcal{O}(0; \{3, 11^3, 33\})$ | 1820 |
| 34 | $\mathcal{O}(0; \{2, 17^3, 34\})$ | 3856 |
| 35 | $\mathcal{O}(0; \{5^3, 7, 35\})$ | 312 |
| 36 | $\mathcal{O}(0; \{4^2, 9^3\})$ | 36 |
| 36 | $\mathcal{O}(0; \{4^2, 6, 9, 18\})$ | 24 |
| 36 | $\mathcal{O}(0; \{3, 4, 9, 12, 18\})$ | 48 |
| 36 | $\mathcal{O}(0; \{2, 9, 12^2, 18\})$ | 48 |
| 36 | $\mathcal{O}(0; \{3, 4, 9^2, 36\})$ | 72 |
| 36 | $\mathcal{O}(0; \{2, 9^2, 12, 36\})$ | 72 |
| 36 | $\mathcal{O}(0; \{2^3, 4, 18, 36\})$ | 12 |
| 36 | $\mathcal{O}(0; \{4^3, 18, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{3, 4, 6, 18, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{3^2, 12, 18, 36\})$ | 96 |
| 36 | $\mathcal{O}(0; \{2, 6, 12, 18, 36\})$ | 48 |
| 36 | $\mathcal{O}(0; \{3^2, 9, 36^2\})$ | 144 |
| 36 | $\mathcal{O}(0; \{2, 6, 9, 36^2\})$ | 72 |
| 36 | $\mathcal{O}(0; \{2, 4, 36^3\})$ | 144 |
| 39 | $\mathcal{O}(2; \emptyset)$ | 2284800 |
| 39 | $\mathcal{O}(1; \{3^3\})$ | 3024 |
| 40 | $\mathcal{O}(1; \{40^2\})$ | 25600 |
| 40 | $\mathcal{O}(0; \{2, 5, 8^2, 10\})$ | 16 |
| 40 | $\mathcal{O}(0; \{2, 5^2, 8, 40\})$ | 48 |
| 40 | $\mathcal{O}(0; \{2^4, 40^2\})$ | 16 |
| 40 | $\mathcal{O}(0; \{2, 4^2, 40^2\})$ | 64 |
| 41 | $\mathcal{O}(0; \{41^4\})$ | 62440 |
| 42 | $\mathcal{O}(1; \{14^2\})$ | 9408 |
| 42 | $\mathcal{O}(0; \{3^3, 14^2\})$ | 12 |
| 42 | $\mathcal{O}(0; \{2, 3, 6, 14^2\})$ | 12 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|---------------------------------------|---|
| 42 | $\mathcal{O}(0; \{2^2, 21^3\})$ | 60 |
| 42 | $\mathcal{O}(0; \{2, 3, 7^2, 42\})$ | 60 |
| 42 | $\mathcal{O}(0; \{2^2, 14, 21, 42\})$ | 60 |
| 42 | $\mathcal{O}(0; \{21^2, 42^2\})$ | 1116 |
| 42 | $\mathcal{O}(0; \{14, 42^3\})$ | 372 |
| 44 | $\mathcal{O}(0; \{11^2, 44^2\})$ | 1820 |
| 45 | $\mathcal{O}(0; \{9, 15^2, 45\})$ | 288 |
| 45 | $\mathcal{O}(0; \{9^2, 45^2\})$ | 648 |
| 45 | $\mathcal{O}(0; \{5, 45^3\})$ | 936 |
| 48 | $\mathcal{O}(0; \{6, 12, 16^2\})$ | 32 |
| 48 | $\mathcal{O}(0; \{6, 8, 16, 48\})$ | 64 |
| 48 | $\mathcal{O}(0; \{4, 16, 24, 48\})$ | 128 |
| 48 | $\mathcal{O}(0; \{2^2, 3, 48^2\})$ | 16 |
| 48 | $\mathcal{O}(0; \{6^2, 48^2\})$ | 48 |
| 48 | $\mathcal{O}(0; \{4, 12, 48^2\})$ | 64 |
| 50 | $\mathcal{O}(0; \{5^2, 50^2\})$ | 320 |
| 51 | $\mathcal{O}(0; \{3, 17^2, 51\})$ | 480 |
| 52 | $\mathcal{O}(1; \{4^2\})$ | 5376 |
| 54 | $\mathcal{O}(0; \{2^3, 27, 54\})$ | 18 |
| 54 | $\mathcal{O}(0; \{3, 6, 27, 54\})$ | 72 |
| 54 | $\mathcal{O}(0; \{2, 54^3\})$ | 162 |
| 55 | $\mathcal{O}(0; \{5^2, 11^2\})$ | 40 |
| 56 | $\mathcal{O}(0; \{2, 14, 56^2\})$ | 120 |
| 60 | $\mathcal{O}(0; \{3, 4, 15, 20\})$ | 16 |
| 60 | $\mathcal{O}(0; \{2, 12, 15, 20\})$ | 16 |
| 60 | $\mathcal{O}(0; \{3, 4, 10, 60\})$ | 16 |
| 60 | $\mathcal{O}(0; \{2, 10, 12, 60\})$ | 16 |
| 60 | $\mathcal{O}(0; \{3^2, 60^2\})$ | 48 |
| 60 | $\mathcal{O}(0; \{2, 6, 60^2\})$ | 16 |
| 64 | $\mathcal{O}(0; \{2, 4, 64^2\})$ | 64 |
| 78 | $\mathcal{O}(1; \{2^2\})$ | 5376 |
| 80 | $\mathcal{O}(0; \{2^2, 80^2\})$ | 32 |
| 81 | $\mathcal{O}(0; \{81^3\})$ | 1458 |
| 82 | $\mathcal{O}(0; \{2^2, 41^2\})$ | 40 |
| 82 | $\mathcal{O}(0; \{41, 82^2\})$ | 1560 |
| 84 | $\mathcal{O}(0; \{28, 42, 84\})$ | 120 |
| 84 | $\mathcal{O}(0; \{21, 84^2\})$ | 120 |
| 85 | $\mathcal{O}(0; \{17, 85^2\})$ | 960 |
| 88 | $\mathcal{O}(0; \{11, 88^2\})$ | 360 |
| 90 | $\mathcal{O}(0; \{15, 18, 90\})$ | 48 |
| 90 | $\mathcal{O}(0; \{10, 45, 90\})$ | 72 |
| 90 | $\mathcal{O}(0; \{9, 90^2\})$ | 72 |
| 96 | $\mathcal{O}(0; \{6, 96^2\})$ | 32 |

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Table 10 – continued from previous page

| Order of \mathbb{Z}_ℓ | Orbifold | $\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$ |
|----------------------------|----------------------------------|---|
| 99 | $\mathcal{O}(0; \{9, 11, 99\})$ | 60 |
| 100 | $\mathcal{O}(0; \{5, 100^2\})$ | 160 |
| 102 | $\mathcal{O}(0; \{6, 17, 102\})$ | 32 |
| 105 | $\mathcal{O}(0; \{5, 21, 105\})$ | 48 |
| 108 | $\mathcal{O}(0; \{4, 54, 108\})$ | 36 |
| 120 | $\mathcal{O}(0; \{3, 120^2\})$ | 32 |
| 123 | $\mathcal{O}(0; \{3, 41, 123\})$ | 80 |
| 160 | $\mathcal{O}(0; \{2, 160^2\})$ | 64 |
| 162 | $\mathcal{O}(0; \{2, 81, 162\})$ | 54 |