

Table 1: 11-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(11; \emptyset)$	1
2	$\mathcal{O}(6; \emptyset)$	4095
2	$\mathcal{O}(5; \{2^4\})$	1024
2	$\mathcal{O}(4; \{2^8\})$	256
2	$\mathcal{O}(3; \{2^{12}\})$	64
2	$\mathcal{O}(2; \{2^{16}\})$	16
2	$\mathcal{O}(1; \{2^{20}\})$	4
2	$\mathcal{O}(0; \{2^{24}\})$	1
3	$\mathcal{O}(3; \{3^4\})$	4374
3	$\mathcal{O}(2; \{3^7\})$	3402
3	$\mathcal{O}(1; \{3^{10}\})$	3078
3	$\mathcal{O}(0; \{3^{13}\})$	2730
4	$\mathcal{O}(3; \{2^2\})$	4032
4	$\mathcal{O}(2; \{2^6\})$	240
4	$\mathcal{O}(2; \{2^3, 4^2\})$	512
4	$\mathcal{O}(2; \{4^4\})$	2048
4	$\mathcal{O}(1; \{2^{10}\})$	12
4	$\mathcal{O}(1; \{2^7, 4^2\})$	32
4	$\mathcal{O}(1; \{2^4, 4^4\})$	128
4	$\mathcal{O}(1; \{2, 4^6\})$	512
4	$\mathcal{O}(0; \{2^{11}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^8, 4^4\})$	8
4	$\mathcal{O}(0; \{2^5, 4^6\})$	32
4	$\mathcal{O}(0; \{2^2, 4^8\})$	128
5	$\mathcal{O}(3; \emptyset)$	15624
5	$\mathcal{O}(1; \{5^5\})$	5100
6	$\mathcal{O}(2; \{3^2\})$	2430
6	$\mathcal{O}(1; \{2^4, 3^2\})$	72
6	$\mathcal{O}(1; \{3^5\})$	270
6	$\mathcal{O}(1; \{2, 3^3, 6\})$	216
6	$\mathcal{O}(1; \{2^2, 3, 6^2\})$	72
6	$\mathcal{O}(1; \{6^4\})$	216
6	$\mathcal{O}(0; \{2^8, 3^2\})$	2
6	$\mathcal{O}(0; \{2^4, 3^5\})$	10
6	$\mathcal{O}(0; \{2^5, 3^3, 6\})$	6
6	$\mathcal{O}(0; \{2, 3^6, 6\})$	42
6	$\mathcal{O}(0; \{2^6, 3, 6^2\})$	2
6	$\mathcal{O}(0; \{2^2, 3^4, 6^2\})$	22
6	$\mathcal{O}(0; \{2^3, 3^2, 6^3\})$	10
6	$\mathcal{O}(0; \{2^4, 6^4\})$	6
6	$\mathcal{O}(0; \{3^3, 6^4\})$	42
6	$\mathcal{O}(0; \{2, 3, 6^5\})$	22

Continued on next page

Table 1 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
8	$\mathcal{O}(1; \{2^2, 4^2\})$	96
8	$\mathcal{O}(1; \{4, 8^2\})$	512
8	$\mathcal{O}(0; \{2^4, 4, 8^2\})$	8
8	$\mathcal{O}(0; \{2, 4^3, 8^2\})$	32
8	$\mathcal{O}(0; \{2^2, 8^4\})$	64
9	$\mathcal{O}(0; \{3, 9^4\})$	324
10	$\mathcal{O}(2; \emptyset)$	9360
10	$\mathcal{O}(1; \{2^4\})$	96
10	$\mathcal{O}(0; \{2^3, 5^2, 10\})$	12
10	$\mathcal{O}(0; \{2, 5, 10^3\})$	52
11	$\mathcal{O}(1; \{11^2\})$	1210
12	$\mathcal{O}(1; \{6^2\})$	216
12	$\mathcal{O}(0; \{3^2, 4^2, 6\})$	4
12	$\mathcal{O}(0; \{2, 4^2, 6^2\})$	4
12	$\mathcal{O}(0; \{3^3, 4, 12\})$	12
12	$\mathcal{O}(0; \{2, 3, 4, 6, 12\})$	4
12	$\mathcal{O}(0; \{2, 3^2, 12^2\})$	12
12	$\mathcal{O}(0; \{2^2, 6, 12^2\})$	4
12	$\mathcal{O}(0; \{12^4\})$	48
15	$\mathcal{O}(1; \{3^2\})$	432
15	$\mathcal{O}(0; \{3, 5, 15^2\})$	24
16	$\mathcal{O}(0; \{2, 8, 16^2\})$	32
18	$\mathcal{O}(0; \{2, 6, 9^2\})$	12
20	$\mathcal{O}(1; \{2^2\})$	288
20	$\mathcal{O}(0; \{2, 4, 5, 20\})$	8
22	$\mathcal{O}(0; \{2^2, 22^2\})$	10
23	$\mathcal{O}(0; \{23^3\})$	462
24	$\mathcal{O}(0; \{12, 24^2\})$	16
30	$\mathcal{O}(0; \{6, 10, 15\})$	8
33	$\mathcal{O}(0; \{3, 33^2\})$	20
44	$\mathcal{O}(0; \{2, 44^2\})$	20
46	$\mathcal{O}(0; \{2, 23, 46\})$	22

Table 2: 12-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(12; \emptyset)$	1
2	$\mathcal{O}(6; \{2^2\})$	4096
2	$\mathcal{O}(5; \{2^6\})$	1024
2	$\mathcal{O}(4; \{2^{10}\})$	256

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	$\mathcal{O}(3; \{2^{14}\})$	64
2	$\mathcal{O}(2; \{2^{18}\})$	16
2	$\mathcal{O}(1; \{2^{22}\})$	4
2	$\mathcal{O}(0; \{2^{26}\})$	1
3	$\mathcal{O}(4; \{3^2\})$	13122
3	$\mathcal{O}(3; \{3^5\})$	7290
3	$\mathcal{O}(2; \{3^8\})$	6966
3	$\mathcal{O}(1; \{3^{11}\})$	6138
3	$\mathcal{O}(0; \{3^{14}\})$	5462
4	$\mathcal{O}(3; \{4^2\})$	8192
4	$\mathcal{O}(2; \{2^4, 4^2\})$	512
4	$\mathcal{O}(2; \{2, 4^4\})$	2048
4	$\mathcal{O}(1; \{2^8, 4^2\})$	32
4	$\mathcal{O}(1; \{2^5, 4^4\})$	128
4	$\mathcal{O}(1; \{2^2, 4^6\})$	512
4	$\mathcal{O}(0; \{2^{12}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^9, 4^4\})$	8
4	$\mathcal{O}(0; \{2^6, 4^6\})$	32
4	$\mathcal{O}(0; \{2^3, 4^8\})$	128
4	$\mathcal{O}(0; \{4^{10}\})$	512
5	$\mathcal{O}(2; \{5^3\})$	7500
5	$\mathcal{O}(0; \{5^8\})$	13108
6	$\mathcal{O}(2; \{6^2\})$	2592
6	$\mathcal{O}(1; \{2^2, 3^4\})$	216
6	$\mathcal{O}(1; \{2^3, 3^2, 6\})$	72
6	$\mathcal{O}(1; \{2^4, 6^2\})$	72
6	$\mathcal{O}(1; \{3^3, 6^2\})$	360
6	$\mathcal{O}(1; \{2, 3, 6^3\})$	216
6	$\mathcal{O}(0; \{2^6, 3^4\})$	6
6	$\mathcal{O}(0; \{2^2, 3^7\})$	42
6	$\mathcal{O}(0; \{2^7, 3^2, 6\})$	2
6	$\mathcal{O}(0; \{2^3, 3^5, 6\})$	22
6	$\mathcal{O}(0; \{2^8, 6^2\})$	2
6	$\mathcal{O}(0; \{2^4, 3^3, 6^2\})$	10
6	$\mathcal{O}(0; \{3^6, 6^2\})$	86
6	$\mathcal{O}(0; \{2^5, 3, 6^3\})$	6
6	$\mathcal{O}(0; \{2, 3^4, 6^3\})$	42
6	$\mathcal{O}(0; \{2^2, 3^2, 6^4\})$	22
6	$\mathcal{O}(0; \{2^3, 6^5\})$	10
6	$\mathcal{O}(0; \{3, 6^6\})$	42
7	$\mathcal{O}(0; \{7^6\})$	6666
8	$\mathcal{O}(1; \{2^2, 8^2\})$	256
8	$\mathcal{O}(0; \{2^6, 8^2\})$	4

Continued on next page

Table 2 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
8	$\mathcal{O}(0; \{2^3, 4^2, 8^2\})$	16
8	$\mathcal{O}(0; \{4^4, 8^2\})$	64
8	$\mathcal{O}(0; \{2, 4, 8^4\})$	128
9	$\mathcal{O}(1; \{3, 9^2\})$	972
9	$\mathcal{O}(0; \{3^4, 9^2\})$	96
9	$\mathcal{O}(0; \{9^5\})$	810
10	$\mathcal{O}(1; \{2, 5, 10\})$	400
10	$\mathcal{O}(0; \{2^2, 5^4\})$	52
10	$\mathcal{O}(0; \{2^5, 5, 10\})$	4
10	$\mathcal{O}(0; \{5^3, 10^2\})$	204
10	$\mathcal{O}(0; \{2^3, 10^3\})$	12
11	$\mathcal{O}(2; \emptyset)$	14640
12	$\mathcal{O}(1; \{12^2\})$	576
12	$\mathcal{O}(0; \{2^2, 3^2, 4^2\})$	4
12	$\mathcal{O}(0; \{3, 4^2, 6^2\})$	4
12	$\mathcal{O}(0; \{2^3, 3, 4, 12\})$	4
12	$\mathcal{O}(0; \{3, 4^3, 12\})$	16
12	$\mathcal{O}(0; \{3^2, 4, 6, 12\})$	12
12	$\mathcal{O}(0; \{2, 4, 6^2, 12\})$	4
12	$\mathcal{O}(0; \{2^4, 12^2\})$	4
12	$\mathcal{O}(0; \{3^3, 12^2\})$	20
12	$\mathcal{O}(0; \{2, 4^2, 12^2\})$	16
12	$\mathcal{O}(0; \{2, 3, 6, 12^2\})$	12
13	$\mathcal{O}(0; \{13^4\})$	1596
14	$\mathcal{O}(0; \{2^2, 7^3\})$	30
14	$\mathcal{O}(0; \{7^2, 14^2\})$	186
15	$\mathcal{O}(0; \{5^2, 15^2\})$	104
15	$\mathcal{O}(0; \{3, 15^3\})$	72
16	$\mathcal{O}(0; \{2^3, 16^2\})$	8
16	$\mathcal{O}(0; \{4^2, 16^2\})$	32
18	$\mathcal{O}(0; \{2, 9^2, 18\})$	18
18	$\mathcal{O}(0; \{3^2, 18^2\})$	24
18	$\mathcal{O}(0; \{2, 6, 18^2\})$	12
20	$\mathcal{O}(0; \{4^2, 5^2\})$	8
20	$\mathcal{O}(0; \{2, 4, 10, 20\})$	8
21	$\mathcal{O}(0; \{3^2, 7^2\})$	12
22	$\mathcal{O}(1; \{2^2\})$	480
24	$\mathcal{O}(0; \{2^2, 24^2\})$	8
25	$\mathcal{O}(0; \{25^3\})$	300
26	$\mathcal{O}(0; \{2^2, 13^2\})$	12
26	$\mathcal{O}(0; \{13, 26^2\})$	132
27	$\mathcal{O}(0; \{9, 27^2\})$	108
28	$\mathcal{O}(0; \{7, 28^2\})$	60

Continued on next page

Table 2 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
30	$\mathcal{O}(0; \{6, 15, 30\})$	8
30	$\mathcal{O}(0; \{5, 30^2\})$	24
32	$\mathcal{O}(0; \{4, 32^2\})$	32
35	$\mathcal{O}(0; \{5, 7, 35\})$	24
36	$\mathcal{O}(0; \{4, 9, 36\})$	12
36	$\mathcal{O}(0; \{3, 36^2\})$	24
39	$\mathcal{O}(0; \{3, 13, 39\})$	24
48	$\mathcal{O}(0; \{2, 48^2\})$	16
50	$\mathcal{O}(0; \{2, 25, 50\})$	20

Table 3: 13-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(13; \emptyset)$	1
2	$\mathcal{O}(7; \emptyset)$	16383
2	$\mathcal{O}(6; \{2^4\})$	4096
2	$\mathcal{O}(5; \{2^8\})$	1024
2	$\mathcal{O}(4; \{2^{12}\})$	256
2	$\mathcal{O}(3; \{2^{16}\})$	64
2	$\mathcal{O}(2; \{2^{20}\})$	16
2	$\mathcal{O}(1; \{2^{24}\})$	4
2	$\mathcal{O}(0; \{2^{28}\})$	1
3	$\mathcal{O}(5; \emptyset)$	59048
3	$\mathcal{O}(4; \{3^3\})$	13122
3	$\mathcal{O}(3; \{3^6\})$	16038
3	$\mathcal{O}(2; \{3^9\})$	13770
3	$\mathcal{O}(1; \{3^{12}\})$	12294
3	$\mathcal{O}(0; \{3^{15}\})$	10922
4	$\mathcal{O}(4; \emptyset)$	65280
4	$\mathcal{O}(3; \{2^4\})$	4032
4	$\mathcal{O}(3; \{2, 4^2\})$	8192
4	$\mathcal{O}(2; \{2^8\})$	240
4	$\mathcal{O}(2; \{2^5, 4^2\})$	512
4	$\mathcal{O}(2; \{2^2, 4^4\})$	2048
4	$\mathcal{O}(1; \{2^{12}\})$	12
4	$\mathcal{O}(1; \{2^9, 4^2\})$	32
4	$\mathcal{O}(1; \{2^6, 4^4\})$	128
4	$\mathcal{O}(1; \{2^3, 4^6\})$	512
4	$\mathcal{O}(1; \{4^8\})$	2048
4	$\mathcal{O}(0; \{2^{13}, 4^2\})$	2

Continued on next page

Table 3 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
4	$\mathcal{O}(0; \{2^{10}, 4^4\})$	8
4	$\mathcal{O}(0; \{2^7, 4^6\})$	32
4	$\mathcal{O}(0; \{2^4, 4^8\})$	128
4	$\mathcal{O}(0; \{2, 4^{10}\})$	512
5	$\mathcal{O}(1; \{5^6\})$	20500
6	$\mathcal{O}(3; \emptyset)$	45864
6	$\mathcal{O}(2; \{2^4\})$	1280
6	$\mathcal{O}(2; \{3^3\})$	2430
6	$\mathcal{O}(2; \{2, 3, 6\})$	2592
6	$\mathcal{O}(1; \{2^8\})$	32
6	$\mathcal{O}(1; \{2^4, 3^3\})$	72
6	$\mathcal{O}(1; \{3^6\})$	594
6	$\mathcal{O}(1; \{2^5, 3, 6\})$	72
6	$\mathcal{O}(1; \{2, 3^4, 6\})$	360
6	$\mathcal{O}(1; \{2^2, 3^2, 6^2\})$	216
6	$\mathcal{O}(1; \{2^3, 6^3\})$	72
6	$\mathcal{O}(1; \{3, 6^4\})$	360
6	$\mathcal{O}(0; \{2^8, 3^3\})$	2
6	$\mathcal{O}(0; \{2^4, 3^6\})$	22
6	$\mathcal{O}(0; \{2^9, 3, 6\})$	2
6	$\mathcal{O}(0; \{2^5, 3^4, 6\})$	10
6	$\mathcal{O}(0; \{2, 3^7, 6\})$	86
6	$\mathcal{O}(0; \{2^6, 3^2, 6^2\})$	6
6	$\mathcal{O}(0; \{2^2, 3^5, 6^2\})$	42
6	$\mathcal{O}(0; \{2^7, 6^3\})$	2
6	$\mathcal{O}(0; \{2^3, 3^3, 6^3\})$	22
6	$\mathcal{O}(0; \{2^4, 3, 6^4\})$	10
6	$\mathcal{O}(0; \{3^4, 6^4\})$	86
6	$\mathcal{O}(0; \{2, 3^2, 6^5\})$	42
6	$\mathcal{O}(0; \{2^2, 6^6\})$	22
7	$\mathcal{O}(1; \{7^4\})$	9114
8	$\mathcal{O}(2; \{2^2\})$	3840
8	$\mathcal{O}(1; \{2^6\})$	48
8	$\mathcal{O}(1; \{2^3, 4^2\})$	96
8	$\mathcal{O}(1; \{4^4\})$	384
8	$\mathcal{O}(1; \{2, 4, 8^2\})$	512
8	$\mathcal{O}(0; \{2^5, 4, 8^2\})$	8
8	$\mathcal{O}(0; \{2^2, 4^3, 8^2\})$	32
8	$\mathcal{O}(0; \{2^3, 8^4\})$	64
8	$\mathcal{O}(0; \{4^2, 8^4\})$	256
9	$\mathcal{O}(1; \{3^4\})$	432
9	$\mathcal{O}(1; \{9^3\})$	1458
9	$\mathcal{O}(0; \{3^3, 9^3\})$	144

Continued on next page

Table 3 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
10	$\mathcal{O}(1; \{5^3\})$	900
10	$\mathcal{O}(0; \{2^4, 5^3\})$	12
10	$\mathcal{O}(0; \{2^2, 5^2, 10^2\})$	52
10	$\mathcal{O}(0; \{5, 10^4\})$	204
12	$\mathcal{O}(2; \emptyset)$	19200
12	$\mathcal{O}(1; \{2^4\})$	96
12	$\mathcal{O}(1; \{3^3\})$	216
12	$\mathcal{O}(1; \{2, 4^2\})$	256
12	$\mathcal{O}(1; \{2, 3, 6\})$	216
12	$\mathcal{O}(0; \{2, 3^3, 4^2\})$	4
12	$\mathcal{O}(0; \{2^2, 3, 4^2, 6\})$	4
12	$\mathcal{O}(0; \{4^2, 6^3\})$	4
12	$\mathcal{O}(0; \{2^2, 3^2, 4, 12\})$	4
12	$\mathcal{O}(0; \{2^3, 4, 6, 12\})$	4
12	$\mathcal{O}(0; \{4^3, 6, 12\})$	16
12	$\mathcal{O}(0; \{3, 4, 6^2, 12\})$	12
12	$\mathcal{O}(0; \{2^3, 3, 12^2\})$	4
12	$\mathcal{O}(0; \{3, 4^2, 12^2\})$	16
12	$\mathcal{O}(0; \{3^2, 6, 12^2\})$	20
12	$\mathcal{O}(0; \{2, 6^2, 12^2\})$	12
12	$\mathcal{O}(0; \{2, 4, 12^3\})$	16
13	$\mathcal{O}(1; \{13^2\})$	2028
14	$\mathcal{O}(1; \{7^2\})$	882
14	$\mathcal{O}(0; \{2^4, 7^2\})$	6
14	$\mathcal{O}(0; \{2^2, 7, 14^2\})$	30
14	$\mathcal{O}(0; \{14^4\})$	186
15	$\mathcal{O}(1; \{5^2\})$	800
15	$\mathcal{O}(0; \{3^3, 5^2\})$	8
15	$\mathcal{O}(0; \{5, 15^3\})$	104
16	$\mathcal{O}(1; \{4^2\})$	384
16	$\mathcal{O}(0; \{4, 8, 16^2\})$	64
18	$\mathcal{O}(1; \{3^2\})$	432
18	$\mathcal{O}(0; \{2^3, 9, 18\})$	6
18	$\mathcal{O}(0; \{3, 6, 9, 18\})$	24
18	$\mathcal{O}(0; \{2, 18^3\})$	18
20	$\mathcal{O}(0; \{4^2, 5, 10\})$	8
20	$\mathcal{O}(0; \{2, 5, 20^2\})$	24
21	$\mathcal{O}(0; \{3^2, 7, 21\})$	12
24	$\mathcal{O}(1; \{2^2\})$	384
24	$\mathcal{O}(0; \{2, 3, 8, 24\})$	8
26	$\mathcal{O}(0; \{2^2, 26^2\})$	12
27	$\mathcal{O}(0; \{27^3\})$	162
28	$\mathcal{O}(0; \{14, 28^2\})$	60

Continued on next page

Table 3 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
30	$\mathcal{O}(0; \{10, 15, 30\})$	24
36	$\mathcal{O}(0; \{4, 18, 36\})$	12
39	$\mathcal{O}(0; \{3, 39^2\})$	24
42	$\mathcal{O}(0; \{3, 14, 42\})$	12
52	$\mathcal{O}(0; \{2, 52^2\})$	24
54	$\mathcal{O}(0; \{2, 27, 54\})$	18

Table 4: 14-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(14; \emptyset)$	1
2	$\mathcal{O}(7; \{2^2\})$	16384
2	$\mathcal{O}(6; \{2^6\})$	4096
2	$\mathcal{O}(5; \{2^{10}\})$	1024
2	$\mathcal{O}(4; \{2^{14}\})$	256
2	$\mathcal{O}(3; \{2^{18}\})$	64
2	$\mathcal{O}(2; \{2^{22}\})$	16
2	$\mathcal{O}(1; \{2^{26}\})$	4
2	$\mathcal{O}(0; \{2^{30}\})$	1
3	$\mathcal{O}(4; \{3^4\})$	39366
3	$\mathcal{O}(3; \{3^7\})$	30618
3	$\mathcal{O}(2; \{3^{10}\})$	27702
3	$\mathcal{O}(1; \{3^{13}\})$	24570
3	$\mathcal{O}(0; \{3^{16}\})$	21846
4	$\mathcal{O}(3; \{2^2, 4^2\})$	8192
4	$\mathcal{O}(2; \{2^6, 4^2\})$	512
4	$\mathcal{O}(2; \{2^3, 4^4\})$	2048
4	$\mathcal{O}(2; \{4^6\})$	8192
4	$\mathcal{O}(1; \{2^{10}, 4^2\})$	32
4	$\mathcal{O}(1; \{2^7, 4^4\})$	128
4	$\mathcal{O}(1; \{2^4, 4^6\})$	512
4	$\mathcal{O}(1; \{2, 4^8\})$	2048
4	$\mathcal{O}(0; \{2^{14}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^{11}, 4^4\})$	8
4	$\mathcal{O}(0; \{2^8, 4^6\})$	32
4	$\mathcal{O}(0; \{2^5, 4^8\})$	128
4	$\mathcal{O}(0; \{2^2, 4^{10}\})$	512
5	$\mathcal{O}(2; \{5^4\})$	32500
5	$\mathcal{O}(0; \{5^9\})$	52428
6	$\mathcal{O}(2; \{2^2, 3^2\})$	2592

Continued on next page

Table 4 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
6	$\mathcal{O}(2; \{3, 6^2\})$	2592
6	$\mathcal{O}(1; \{2^6, 3^2\})$	72
6	$\mathcal{O}(1; \{2^2, 3^5\})$	360
6	$\mathcal{O}(1; \{2^3, 3^3, 6\})$	216
6	$\mathcal{O}(1; \{2^4, 3, 6^2\})$	72
6	$\mathcal{O}(1; \{3^4, 6^2\})$	792
6	$\mathcal{O}(1; \{2, 3^2, 6^3\})$	360
6	$\mathcal{O}(1; \{2^2, 6^4\})$	216
6	$\mathcal{O}(0; \{2^{10}, 3^2\})$	2
6	$\mathcal{O}(0; \{2^6, 3^5\})$	10
6	$\mathcal{O}(0; \{2^2, 3^8\})$	86
6	$\mathcal{O}(0; \{2^7, 3^3, 6\})$	6
6	$\mathcal{O}(0; \{2^3, 3^6, 6\})$	42
6	$\mathcal{O}(0; \{2^8, 3, 6^2\})$	2
6	$\mathcal{O}(0; \{2^4, 3^4, 6^2\})$	22
6	$\mathcal{O}(0; \{3^7, 6^2\})$	170
6	$\mathcal{O}(0; \{2^5, 3^2, 6^3\})$	10
6	$\mathcal{O}(0; \{2, 3^5, 6^3\})$	86
6	$\mathcal{O}(0; \{2^6, 6^4\})$	6
6	$\mathcal{O}(0; \{2^2, 3^3, 6^4\})$	42
6	$\mathcal{O}(0; \{2^3, 3, 6^5\})$	22
6	$\mathcal{O}(0; \{3^2, 6^6\})$	86
6	$\mathcal{O}(0; \{2, 6^7\})$	42
7	$\mathcal{O}(2; \{7^2\})$	14406
8	$\mathcal{O}(1; \{2^3, 8^2\})$	256
8	$\mathcal{O}(1; \{4^2, 8^2\})$	1024
8	$\mathcal{O}(0; \{2^7, 8^2\})$	4
8	$\mathcal{O}(0; \{2^4, 4^2, 8^2\})$	16
8	$\mathcal{O}(0; \{2, 4^4, 8^2\})$	64
8	$\mathcal{O}(0; \{2^2, 4, 8^4\})$	128
8	$\mathcal{O}(0; \{8^6\})$	1024
9	$\mathcal{O}(0; \{3^2, 9^4\})$	648
10	$\mathcal{O}(1; \{2^2, 5^2\})$	400
10	$\mathcal{O}(1; \{5, 10^2\})$	1200
10	$\mathcal{O}(0; \{2^6, 5^2\})$	4
10	$\mathcal{O}(0; \{2, 5^4, 10\})$	204
10	$\mathcal{O}(0; \{2^4, 5, 10^2\})$	12
10	$\mathcal{O}(0; \{2^2, 10^4\})$	52
12	$\mathcal{O}(0; \{3^4, 4^2\})$	12
12	$\mathcal{O}(0; \{2, 3^2, 4^2, 6\})$	4
12	$\mathcal{O}(0; \{2^2, 4^2, 6^2\})$	4
12	$\mathcal{O}(0; \{2, 3^3, 4, 12\})$	12
12	$\mathcal{O}(0; \{2^2, 3, 4, 6, 12\})$	4

Continued on next page

Table 4 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
12	$\mathcal{O}(0; \{4, 6^3, 12\})$	12
12	$\mathcal{O}(0; \{2^2, 3^2, 12^2\})$	12
12	$\mathcal{O}(0; \{2^3, 6, 12^2\})$	4
12	$\mathcal{O}(0; \{4^2, 6, 12^2\})$	16
12	$\mathcal{O}(0; \{3, 6^2, 12^2\})$	20
12	$\mathcal{O}(0; \{3, 4, 12^3\})$	48
12	$\mathcal{O}(0; \{2, 12^4\})$	48
13	$\mathcal{O}(2; \emptyset)$	28560
14	$\mathcal{O}(1; \{14^2\})$	1176
14	$\mathcal{O}(0; \{2^4, 14^2\})$	6
15	$\mathcal{O}(0; \{3^2, 5^3\})$	24
15	$\mathcal{O}(0; \{3^3, 5, 15\})$	24
15	$\mathcal{O}(0; \{15^4\})$	312
16	$\mathcal{O}(0; \{2^2, 4, 16^2\})$	16
16	$\mathcal{O}(0; \{8^2, 16^2\})$	128
18	$\mathcal{O}(0; \{2^2, 3, 9^2\})$	12
18	$\mathcal{O}(0; \{6^2, 9^2\})$	24
18	$\mathcal{O}(0; \{3, 9, 18^2\})$	36
20	$\mathcal{O}(0; \{4^2, 10^2\})$	8
20	$\mathcal{O}(0; \{4, 5^2, 20\})$	24
20	$\mathcal{O}(0; \{2, 10, 20^2\})$	24
21	$\mathcal{O}(0; \{3^2, 21^2\})$	36
24	$\mathcal{O}(0; \{3^2, 8^2\})$	8
24	$\mathcal{O}(0; \{2, 3, 24^2\})$	8
26	$\mathcal{O}(1; \{2^2\})$	672
28	$\mathcal{O}(0; \{2^2, 28^2\})$	12
29	$\mathcal{O}(0; \{29^3\})$	756
30	$\mathcal{O}(0; \{2^2, 15^2\})$	8
30	$\mathcal{O}(0; \{15, 30^2\})$	24
32	$\mathcal{O}(0; \{8, 32^2\})$	64
35	$\mathcal{O}(0; \{5, 35^2\})$	72
40	$\mathcal{O}(0; \{5, 8, 40\})$	16
42	$\mathcal{O}(0; \{3, 42^2\})$	12
56	$\mathcal{O}(0; \{2, 56^2\})$	24
58	$\mathcal{O}(0; \{2, 29, 58\})$	28

Table 5: 15-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(15; \emptyset)$	1
Continued on next page		

Table 5 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
2	$\mathcal{O}(8; \emptyset)$	65535
2	$\mathcal{O}(7; \{2^4\})$	16384
2	$\mathcal{O}(6; \{2^8\})$	4096
2	$\mathcal{O}(5; \{2^{12}\})$	1024
2	$\mathcal{O}(4; \{2^{16}\})$	256
2	$\mathcal{O}(3; \{2^{20}\})$	64
2	$\mathcal{O}(2; \{2^{24}\})$	16
2	$\mathcal{O}(1; \{2^{28}\})$	4
2	$\mathcal{O}(0; \{2^{32}\})$	1
3	$\mathcal{O}(5; \{3^2\})$	118098
3	$\mathcal{O}(4; \{3^5\})$	65610
3	$\mathcal{O}(3; \{3^8\})$	62694
3	$\mathcal{O}(2; \{3^{11}\})$	55242
3	$\mathcal{O}(1; \{3^{14}\})$	49158
3	$\mathcal{O}(0; \{3^{17}\})$	43690
4	$\mathcal{O}(4; \{2^2\})$	65280
4	$\mathcal{O}(3; \{2^6\})$	4032
4	$\mathcal{O}(3; \{2^3, 4^2\})$	8192
4	$\mathcal{O}(3; \{4^4\})$	32768
4	$\mathcal{O}(2; \{2^{10}\})$	240
4	$\mathcal{O}(2; \{2^7, 4^2\})$	512
4	$\mathcal{O}(2; \{2^4, 4^4\})$	2048
4	$\mathcal{O}(2; \{2, 4^6\})$	8192
4	$\mathcal{O}(1; \{2^{14}\})$	12
4	$\mathcal{O}(1; \{2^{11}, 4^2\})$	32
4	$\mathcal{O}(1; \{2^8, 4^4\})$	128
4	$\mathcal{O}(1; \{2^5, 4^6\})$	512
4	$\mathcal{O}(1; \{2^2, 4^8\})$	2048
4	$\mathcal{O}(0; \{2^{15}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^{12}, 4^4\})$	8
4	$\mathcal{O}(0; \{2^9, 4^6\})$	32
4	$\mathcal{O}(0; \{2^6, 4^8\})$	128
4	$\mathcal{O}(0; \{2^3, 4^{10}\})$	512
4	$\mathcal{O}(0; \{4^{12}\})$	2048
5	$\mathcal{O}(3; \{5^2\})$	62500
5	$\mathcal{O}(1; \{5^7\})$	81900
6	$\mathcal{O}(2; \{3^4\})$	7290
6	$\mathcal{O}(2; \{2, 3^2, 6\})$	2592
6	$\mathcal{O}(2; \{2^2, 6^2\})$	2592
6	$\mathcal{O}(1; \{2^4, 3^4\})$	216
6	$\mathcal{O}(1; \{3^7\})$	1134
6	$\mathcal{O}(1; \{2^5, 3^2, 6\})$	72
6	$\mathcal{O}(1; \{2, 3^5, 6\})$	792

Continued on next page

Table 5 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
6	$\mathcal{O}(1; \{2^6, 6^2\})$	72
6	$\mathcal{O}(1; \{2^2, 3^3, 6^2\})$	360
6	$\mathcal{O}(1; \{2^3, 3, 6^3\})$	216
6	$\mathcal{O}(1; \{3^2, 6^4\})$	792
6	$\mathcal{O}(1; \{2, 6^5\})$	360
6	$\mathcal{O}(0; \{2^8, 3^4\})$	6
6	$\mathcal{O}(0; \{2^4, 3^7\})$	42
6	$\mathcal{O}(0; \{2^9, 3^2, 6\})$	2
6	$\mathcal{O}(0; \{2^5, 3^5, 6\})$	22
6	$\mathcal{O}(0; \{2, 3^8, 6\})$	170
6	$\mathcal{O}(0; \{2^{10}, 6^2\})$	2
6	$\mathcal{O}(0; \{2^6, 3^3, 6^2\})$	10
6	$\mathcal{O}(0; \{2^2, 3^6, 6^2\})$	86
6	$\mathcal{O}(0; \{2^7, 3, 6^3\})$	6
6	$\mathcal{O}(0; \{2^3, 3^4, 6^3\})$	42
6	$\mathcal{O}(0; \{2^4, 3^2, 6^4\})$	22
6	$\mathcal{O}(0; \{3^5, 6^4\})$	170
6	$\mathcal{O}(0; \{2^5, 6^5\})$	10
6	$\mathcal{O}(0; \{2, 3^3, 6^5\})$	86
6	$\mathcal{O}(0; \{2^2, 3, 6^6\})$	42
6	$\mathcal{O}(0; \{6^8\})$	86
7	$\mathcal{O}(3; \emptyset)$	117648
7	$\mathcal{O}(0; \{7^7\})$	39990
8	$\mathcal{O}(2; \{4^2\})$	7680
8	$\mathcal{O}(1; \{2^4, 4^2\})$	96
8	$\mathcal{O}(1; \{2, 4^4\})$	384
8	$\mathcal{O}(1; \{2^2, 4, 8^2\})$	512
8	$\mathcal{O}(1; \{8^4\})$	4096
8	$\mathcal{O}(0; \{2^6, 4, 8^2\})$	8
8	$\mathcal{O}(0; \{2^3, 4^3, 8^2\})$	32
8	$\mathcal{O}(0; \{4^5, 8^2\})$	128
8	$\mathcal{O}(0; \{2^4, 8^4\})$	64
8	$\mathcal{O}(0; \{2, 4^2, 8^4\})$	256
9	$\mathcal{O}(1; \{3^2, 9^2\})$	1944
9	$\mathcal{O}(0; \{3^5, 9^2\})$	192
9	$\mathcal{O}(0; \{3, 9^5\})$	1620
10	$\mathcal{O}(1; \{2^2, 10^2\})$	400
10	$\mathcal{O}(0; \{2^3, 5^3, 10\})$	52
10	$\mathcal{O}(0; \{2^6, 10^2\})$	4
10	$\mathcal{O}(0; \{2, 5^2, 10^3\})$	204
11	$\mathcal{O}(0; \{11^5\})$	9090
12	$\mathcal{O}(1; \{2^2, 3^2\})$	216
12	$\mathcal{O}(1; \{3, 6^2\})$	216

Continued on next page

Table 5 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
12	$\mathcal{O}(1; \{3, 4, 12\})$	576
12	$\mathcal{O}(1; \{2, 12^2\})$	576
12	$\mathcal{O}(0; \{2^3, 3^2, 4^2\})$	4
12	$\mathcal{O}(0; \{3^2, 4^4\})$	16
12	$\mathcal{O}(0; \{3^3, 4^2, 6\})$	12
12	$\mathcal{O}(0; \{2, 3, 4^2, 6^2\})$	4
12	$\mathcal{O}(0; \{2^4, 3, 4, 12\})$	4
12	$\mathcal{O}(0; \{3^4, 4, 12\})$	20
12	$\mathcal{O}(0; \{2, 3, 4^3, 12\})$	16
12	$\mathcal{O}(0; \{2, 3^2, 4, 6, 12\})$	12
12	$\mathcal{O}(0; \{2^2, 4, 6^2, 12\})$	4
12	$\mathcal{O}(0; \{2^5, 12^2\})$	4
12	$\mathcal{O}(0; \{2, 3^3, 12^2\})$	20
12	$\mathcal{O}(0; \{2^2, 4^2, 12^2\})$	16
12	$\mathcal{O}(0; \{2^2, 3, 6, 12^2\})$	12
12	$\mathcal{O}(0; \{6^3, 12^2\})$	20
12	$\mathcal{O}(0; \{4, 6, 12^3\})$	48
12	$\mathcal{O}(0; \{3, 12^4\})$	80
14	$\mathcal{O}(2; \emptyset)$	36000
14	$\mathcal{O}(1; \{2^4\})$	192
14	$\mathcal{O}(0; \{2, 7^3, 14\})$	186
15	$\mathcal{O}(1; \{15^2\})$	1800
15	$\mathcal{O}(0; \{3^2, 5^2, 15\})$	24
15	$\mathcal{O}(0; \{3^3, 15^2\})$	40
16	$\mathcal{O}(1; \{8^2\})$	768
16	$\mathcal{O}(0; \{2^2, 8, 16^2\})$	32
16	$\mathcal{O}(0; \{16^4\})$	512
18	$\mathcal{O}(0; \{6, 9^2, 18\})$	36
18	$\mathcal{O}(0; \{2^2, 3, 18^2\})$	12
18	$\mathcal{O}(0; \{6^2, 18^2\})$	24
20	$\mathcal{O}(0; \{4, 5, 10, 20\})$	24
20	$\mathcal{O}(0; \{2^3, 20^2\})$	8
20	$\mathcal{O}(0; \{4^2, 20^2\})$	32
21	$\mathcal{O}(1; \{3^2\})$	864
21	$\mathcal{O}(0; \{3, 7^2, 21\})$	60
22	$\mathcal{O}(0; \{2, 11^2, 22\})$	90
24	$\mathcal{O}(0; \{3^2, 8, 24\})$	8
24	$\mathcal{O}(0; \{2, 6, 8, 24\})$	8
24	$\mathcal{O}(0; \{2, 4, 24^2\})$	16
28	$\mathcal{O}(1; \{2^2\})$	576
30	$\mathcal{O}(0; \{2, 3, 5, 30\})$	8
30	$\mathcal{O}(0; \{2^2, 30^2\})$	8
31	$\mathcal{O}(0; \{31^3\})$	870

Continued on next page

Table 5 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
32	$\mathcal{O}(0; \{16, 32^2\})$	128
33	$\mathcal{O}(0; \{11, 33^2\})$	180
35	$\mathcal{O}(0; \{7, 35^2\})$	120
36	$\mathcal{O}(0; \{9, 12, 36\})$	24
36	$\mathcal{O}(0; \{6, 36^2\})$	24
40	$\mathcal{O}(0; \{4, 40^2\})$	32
42	$\mathcal{O}(0; \{6, 7, 42\})$	12
44	$\mathcal{O}(0; \{4, 11, 44\})$	20
45	$\mathcal{O}(0; \{3, 45^2\})$	48
48	$\mathcal{O}(0; \{3, 16, 48\})$	16
60	$\mathcal{O}(0; \{2, 60^2\})$	16
62	$\mathcal{O}(0; \{2, 31, 62\})$	30

Table 6: 16-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(16; \emptyset)$	1
2	$\mathcal{O}(8; \{2^2\})$	65536
2	$\mathcal{O}(7; \{2^6\})$	16384
2	$\mathcal{O}(6; \{2^{10}\})$	4096
2	$\mathcal{O}(5; \{2^{14}\})$	1024
2	$\mathcal{O}(4; \{2^{18}\})$	256
2	$\mathcal{O}(3; \{2^{22}\})$	64
2	$\mathcal{O}(2; \{2^{26}\})$	16
2	$\mathcal{O}(1; \{2^{30}\})$	4
2	$\mathcal{O}(0; \{2^{34}\})$	1
3	$\mathcal{O}(6; \emptyset)$	531440
3	$\mathcal{O}(5; \{3^3\})$	118098
3	$\mathcal{O}(4; \{3^6\})$	144342
3	$\mathcal{O}(3; \{3^9\})$	123930
3	$\mathcal{O}(2; \{3^{12}\})$	110646
3	$\mathcal{O}(1; \{3^{15}\})$	98298
3	$\mathcal{O}(0; \{3^{18}\})$	87382
4	$\mathcal{O}(4; \{4^2\})$	131072
4	$\mathcal{O}(3; \{2^4, 4^2\})$	8192
4	$\mathcal{O}(3; \{2, 4^4\})$	32768
4	$\mathcal{O}(2; \{2^8, 4^2\})$	512
4	$\mathcal{O}(2; \{2^5, 4^4\})$	2048
4	$\mathcal{O}(2; \{2^2, 4^6\})$	8192
4	$\mathcal{O}(1; \{2^{12}, 4^2\})$	32

Continued on next page

Table 6 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
4	$\mathcal{O}(1; \{2^9, 4^4\})$	128
4	$\mathcal{O}(1; \{2^6, 4^6\})$	512
4	$\mathcal{O}(1; \{2^3, 4^8\})$	2048
4	$\mathcal{O}(1; \{4^{10}\})$	8192
4	$\mathcal{O}(0; \{2^{16}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^{13}, 4^4\})$	8
4	$\mathcal{O}(0; \{2^{10}, 4^6\})$	32
4	$\mathcal{O}(0; \{2^7, 4^8\})$	128
4	$\mathcal{O}(0; \{2^4, 4^{10}\})$	512
4	$\mathcal{O}(0; \{2, 4^{12}\})$	2048
5	$\mathcal{O}(4; \emptyset)$	390624
5	$\mathcal{O}(2; \{5^5\})$	127500
5	$\mathcal{O}(0; \{5^{10}\})$	209716
6	$\mathcal{O}(3; \{2^2\})$	46592
6	$\mathcal{O}(2; \{2^6\})$	1280
6	$\mathcal{O}(2; \{2^2, 3^3\})$	2592
6	$\mathcal{O}(2; \{2^3, 3, 6\})$	2592
6	$\mathcal{O}(2; \{3^2, 6^2\})$	7776
6	$\mathcal{O}(2; \{2, 6^3\})$	2592
6	$\mathcal{O}(1; \{2^{10}\})$	32
6	$\mathcal{O}(1; \{2^6, 3^3\})$	72
6	$\mathcal{O}(1; \{2^2, 3^6\})$	792
6	$\mathcal{O}(1; \{2^7, 3, 6\})$	72
6	$\mathcal{O}(1; \{2^3, 3^4, 6\})$	360
6	$\mathcal{O}(1; \{2^4, 3^2, 6^2\})$	216
6	$\mathcal{O}(1; \{3^5, 6^2\})$	1512
6	$\mathcal{O}(1; \{2^5, 6^3\})$	72
6	$\mathcal{O}(1; \{2, 3^3, 6^3\})$	792
6	$\mathcal{O}(1; \{2^2, 3, 6^4\})$	360
6	$\mathcal{O}(1; \{6^6\})$	792
6	$\mathcal{O}(0; \{2^{10}, 3^3\})$	2
6	$\mathcal{O}(0; \{2^6, 3^6\})$	22
6	$\mathcal{O}(0; \{2^2, 3^9\})$	170
6	$\mathcal{O}(0; \{2^{11}, 3, 6\})$	2
6	$\mathcal{O}(0; \{2^7, 3^4, 6\})$	10
6	$\mathcal{O}(0; \{2^3, 3^7, 6\})$	86
6	$\mathcal{O}(0; \{2^8, 3^2, 6^2\})$	6
6	$\mathcal{O}(0; \{2^4, 3^5, 6^2\})$	42
6	$\mathcal{O}(0; \{3^8, 6^2\})$	342
6	$\mathcal{O}(0; \{2^9, 6^3\})$	2
6	$\mathcal{O}(0; \{2^5, 3^3, 6^3\})$	22
6	$\mathcal{O}(0; \{2, 3^6, 6^3\})$	170
6	$\mathcal{O}(0; \{2^6, 3, 6^4\})$	10

Continued on next page

Table 6 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
6	$\mathcal{O}(0; \{2^2, 3^4, 6^4\})$	86
6	$\mathcal{O}(0; \{2^3, 3^2, 6^5\})$	42
6	$\mathcal{O}(0; \{2^4, 6^6\})$	22
6	$\mathcal{O}(0; \{3^3, 6^6\})$	170
6	$\mathcal{O}(0; \{2, 3, 6^7\})$	86
7	$\mathcal{O}(1; \{7^5\})$	54390
8	$\mathcal{O}(2; \{8^2\})$	16384
8	$\mathcal{O}(1; \{2^4, 8^2\})$	256
8	$\mathcal{O}(1; \{2, 4^2, 8^2\})$	1024
8	$\mathcal{O}(0; \{2^8, 8^2\})$	4
8	$\mathcal{O}(0; \{2^5, 4^2, 8^2\})$	16
8	$\mathcal{O}(0; \{2^2, 4^4, 8^2\})$	64
8	$\mathcal{O}(0; \{2^3, 4, 8^4\})$	128
8	$\mathcal{O}(0; \{4^3, 8^4\})$	512
8	$\mathcal{O}(0; \{2, 8^6\})$	1024
9	$\mathcal{O}(2; \{3^2\})$	12960
9	$\mathcal{O}(1; \{3^5\})$	720
9	$\mathcal{O}(1; \{3, 9^3\})$	2916
9	$\mathcal{O}(0; \{3^4, 9^3\})$	288
9	$\mathcal{O}(0; \{9^6\})$	5346
10	$\mathcal{O}(2; \{2^2\})$	9984
10	$\mathcal{O}(1; \{2^6\})$	96
10	$\mathcal{O}(1; \{2, 5^2, 10\})$	1200
10	$\mathcal{O}(0; \{2^2, 5^5\})$	204
10	$\mathcal{O}(0; \{2^5, 5^2, 10\})$	12
10	$\mathcal{O}(0; \{5^4, 10^2\})$	820
10	$\mathcal{O}(0; \{2^3, 5, 10^3\})$	52
10	$\mathcal{O}(0; \{2, 10^5\})$	204
11	$\mathcal{O}(1; \{11^3\})$	10890
12	$\mathcal{O}(1; \{2^2, 4^2\})$	256
12	$\mathcal{O}(1; \{4, 6, 12\})$	576
12	$\mathcal{O}(1; \{3, 12^2\})$	576
12	$\mathcal{O}(0; \{2^2, 3^3, 4^2\})$	4
12	$\mathcal{O}(0; \{2^3, 3, 4^2, 6\})$	4
12	$\mathcal{O}(0; \{3, 4^4, 6\})$	16
12	$\mathcal{O}(0; \{3^2, 4^2, 6^2\})$	12
12	$\mathcal{O}(0; \{2, 4^2, 6^3\})$	4
12	$\mathcal{O}(0; \{2^3, 3^2, 4, 12\})$	4
12	$\mathcal{O}(0; \{3^2, 4^3, 12\})$	16
12	$\mathcal{O}(0; \{2^4, 4, 6, 12\})$	4
12	$\mathcal{O}(0; \{3^3, 4, 6, 12\})$	20
12	$\mathcal{O}(0; \{2, 4^3, 6, 12\})$	16
12	$\mathcal{O}(0; \{2, 3, 4, 6^2, 12\})$	12

Continued on next page

Table 6 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
12	$\mathcal{O}(0; \{2^4, 3, 12^2\})$	4
12	$\mathcal{O}(0; \{3^4, 12^2\})$	44
12	$\mathcal{O}(0; \{2, 3, 4^2, 12^2\})$	16
12	$\mathcal{O}(0; \{2, 3^2, 6, 12^2\})$	20
12	$\mathcal{O}(0; \{2^2, 6^2, 12^2\})$	12
12	$\mathcal{O}(0; \{2^2, 4, 12^3\})$	16
12	$\mathcal{O}(0; \{6, 12^4\})$	80
14	$\mathcal{O}(0; \{2^3, 7^2, 14\})$	30
14	$\mathcal{O}(0; \{2, 7, 14^3\})$	186
15	$\mathcal{O}(2; \emptyset)$	49920
15	$\mathcal{O}(1; \{3^3\})$	432
15	$\mathcal{O}(0; \{3, 5^3, 15\})$	104
15	$\mathcal{O}(0; \{3^2, 5, 15^2\})$	72
16	$\mathcal{O}(1; \{16^2\})$	2048
16	$\mathcal{O}(0; \{2^4, 16^2\})$	8
16	$\mathcal{O}(0; \{2, 4^2, 16^2\})$	32
17	$\mathcal{O}(0; \{17^4\})$	3856
18	$\mathcal{O}(1; \{6^2\})$	576
18	$\mathcal{O}(0; \{2^2, 9^3\})$	18
18	$\mathcal{O}(0; \{2, 3^2, 9, 18\})$	24
18	$\mathcal{O}(0; \{2^2, 6, 9, 18\})$	12
18	$\mathcal{O}(0; \{9^2, 18^2\})$	162
18	$\mathcal{O}(0; \{6, 18^3\})$	36
20	$\mathcal{O}(1; \{4^2\})$	768
20	$\mathcal{O}(0; \{2^2, 4, 5, 20\})$	8
20	$\mathcal{O}(0; \{4, 10^2, 20\})$	24
20	$\mathcal{O}(0; \{5^2, 20^2\})$	104
21	$\mathcal{O}(0; \{3, 7, 21^2\})$	60
22	$\mathcal{O}(0; \{2^3, 11, 22\})$	10
22	$\mathcal{O}(0; \{2, 22^3\})$	90
24	$\mathcal{O}(0; \{3, 6, 8^2\})$	8
24	$\mathcal{O}(0; \{3, 4, 8, 24\})$	16
24	$\mathcal{O}(0; \{2, 8, 12, 24\})$	16
24	$\mathcal{O}(0; \{3^2, 24^2\})$	24
24	$\mathcal{O}(0; \{2, 6, 24^2\})$	8
28	$\mathcal{O}(0; \{2, 4, 7, 28\})$	12
30	$\mathcal{O}(1; \{2^2\})$	768
30	$\mathcal{O}(0; \{2, 3, 10, 15\})$	8
32	$\mathcal{O}(0; \{2^2, 32^2\})$	16
33	$\mathcal{O}(0; \{33^3\})$	180
34	$\mathcal{O}(0; \{2^2, 17^2\})$	16
34	$\mathcal{O}(0; \{17, 34^2\})$	240
36	$\mathcal{O}(0; \{12, 18, 36\})$	24

Continued on next page

Table 6 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
36	$\mathcal{O}(0; \{9, 36^2\})$	36
40	$\mathcal{O}(0; \{8, 10, 40\})$	16
40	$\mathcal{O}(0; \{5, 40^2\})$	48
42	$\mathcal{O}(0; \{6, 14, 21\})$	12
44	$\mathcal{O}(0; \{4, 22, 44\})$	20
45	$\mathcal{O}(0; \{5, 9, 45\})$	24
48	$\mathcal{O}(0; \{3, 48^2\})$	16
51	$\mathcal{O}(0; \{3, 17, 51\})$	32
64	$\mathcal{O}(0; \{2, 64^2\})$	32
66	$\mathcal{O}(0; \{2, 33, 66\})$	20

Table 7: 17-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(17; \emptyset)$	1
2	$\mathcal{O}(9; \emptyset)$	262143
2	$\mathcal{O}(8; \{2^4\})$	65536
2	$\mathcal{O}(7; \{2^8\})$	16384
2	$\mathcal{O}(6; \{2^{12}\})$	4096
2	$\mathcal{O}(5; \{2^{16}\})$	1024
2	$\mathcal{O}(4; \{2^{20}\})$	256
2	$\mathcal{O}(3; \{2^{24}\})$	64
2	$\mathcal{O}(2; \{2^{28}\})$	16
2	$\mathcal{O}(1; \{2^{32}\})$	4
2	$\mathcal{O}(0; \{2^{36}\})$	1
3	$\mathcal{O}(5; \{3^4\})$	354294
3	$\mathcal{O}(4; \{3^7\})$	275562
3	$\mathcal{O}(3; \{3^{10}\})$	249318
3	$\mathcal{O}(2; \{3^{13}\})$	221130
3	$\mathcal{O}(1; \{3^{16}\})$	196614
3	$\mathcal{O}(0; \{3^{19}\})$	174762
4	$\mathcal{O}(5; \emptyset)$	1047552
4	$\mathcal{O}(4; \{2^4\})$	65280
4	$\mathcal{O}(4; \{2, 4^2\})$	131072
4	$\mathcal{O}(3; \{2^8\})$	4032
4	$\mathcal{O}(3; \{2^5, 4^2\})$	8192
4	$\mathcal{O}(3; \{2^2, 4^4\})$	32768
4	$\mathcal{O}(2; \{2^{12}\})$	240
4	$\mathcal{O}(2; \{2^9, 4^2\})$	512
4	$\mathcal{O}(2; \{2^6, 4^4\})$	2048

Continued on next page

Table 7 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
4	$\mathcal{O}(2; \{2^3, 4^6\})$	8192
4	$\mathcal{O}(2; \{4^8\})$	32768
4	$\mathcal{O}(1; \{2^{16}\})$	12
4	$\mathcal{O}(1; \{2^{13}, 4^2\})$	32
4	$\mathcal{O}(1; \{2^{10}, 4^4\})$	128
4	$\mathcal{O}(1; \{2^7, 4^6\})$	512
4	$\mathcal{O}(1; \{2^4, 4^8\})$	2048
4	$\mathcal{O}(1; \{2, 4^{10}\})$	8192
4	$\mathcal{O}(0; \{2^{17}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^{14}, 4^4\})$	8
4	$\mathcal{O}(0; \{2^{11}, 4^6\})$	32
4	$\mathcal{O}(0; \{2^8, 4^8\})$	128
4	$\mathcal{O}(0; \{2^5, 4^{10}\})$	512
4	$\mathcal{O}(0; \{2^2, 4^{12}\})$	2048
5	$\mathcal{O}(3; \{5^3\})$	187500
5	$\mathcal{O}(1; \{5^8\})$	327700
6	$\mathcal{O}(3; \{3^2\})$	91854
6	$\mathcal{O}(2; \{2^4, 3^2\})$	2592
6	$\mathcal{O}(2; \{3^5\})$	12150
6	$\mathcal{O}(2; \{2, 3^3, 6\})$	7776
6	$\mathcal{O}(2; \{2^2, 3, 6^2\})$	2592
6	$\mathcal{O}(2; \{6^4\})$	7776
6	$\mathcal{O}(1; \{2^8, 3^2\})$	72
6	$\mathcal{O}(1; \{2^4, 3^5\})$	360
6	$\mathcal{O}(1; \{3^8\})$	2322
6	$\mathcal{O}(1; \{2^5, 3^3, 6\})$	216
6	$\mathcal{O}(1; \{2, 3^6, 6\})$	1512
6	$\mathcal{O}(1; \{2^6, 3, 6^2\})$	72
6	$\mathcal{O}(1; \{2^2, 3^4, 6^2\})$	792
6	$\mathcal{O}(1; \{2^3, 3^2, 6^3\})$	360
6	$\mathcal{O}(1; \{2^4, 6^4\})$	216
6	$\mathcal{O}(1; \{3^3, 6^4\})$	1512
6	$\mathcal{O}(1; \{2, 3, 6^5\})$	792
6	$\mathcal{O}(0; \{2^{12}, 3^2\})$	2
6	$\mathcal{O}(0; \{2^8, 3^5\})$	10
6	$\mathcal{O}(0; \{2^4, 3^8\})$	86
6	$\mathcal{O}(0; \{2^9, 3^3, 6\})$	6
6	$\mathcal{O}(0; \{2^5, 3^6, 6\})$	42
6	$\mathcal{O}(0; \{2, 3^9, 6\})$	342
6	$\mathcal{O}(0; \{2^{10}, 3, 6^2\})$	2
6	$\mathcal{O}(0; \{2^6, 3^4, 6^2\})$	22
6	$\mathcal{O}(0; \{2^2, 3^7, 6^2\})$	170
6	$\mathcal{O}(0; \{2^7, 3^2, 6^3\})$	10

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	$\mathcal{O}(0; \{2^3, 3^5, 6^3\})$	86
6	$\mathcal{O}(0; \{2^8, 6^4\})$	6
6	$\mathcal{O}(0; \{2^4, 3^3, 6^4\})$	42
6	$\mathcal{O}(0; \{3^6, 6^4\})$	342
6	$\mathcal{O}(0; \{2^5, 3, 6^5\})$	22
6	$\mathcal{O}(0; \{2, 3^4, 6^5\})$	170
6	$\mathcal{O}(0; \{2^2, 3^2, 6^6\})$	86
6	$\mathcal{O}(0; \{2^3, 6^7\})$	42
6	$\mathcal{O}(0; \{3, 6^8\})$	170
7	$\mathcal{O}(2; \{7^3\})$	72030
8	$\mathcal{O}(3; \emptyset)$	258048
8	$\mathcal{O}(2; \{2^4\})$	3840
8	$\mathcal{O}(2; \{2, 4^2\})$	7680
8	$\mathcal{O}(1; \{2^8\})$	48
8	$\mathcal{O}(1; \{2^5, 4^2\})$	96
8	$\mathcal{O}(1; \{2^2, 4^4\})$	384
8	$\mathcal{O}(1; \{2^3, 4, 8^2\})$	512
8	$\mathcal{O}(1; \{4^3, 8^2\})$	2048
8	$\mathcal{O}(1; \{2, 8^4\})$	4096
8	$\mathcal{O}(0; \{2^7, 4, 8^2\})$	8
8	$\mathcal{O}(0; \{2^4, 4^3, 8^2\})$	32
8	$\mathcal{O}(0; \{2, 4^5, 8^2\})$	128
8	$\mathcal{O}(0; \{2^5, 8^4\})$	64
8	$\mathcal{O}(0; \{2^2, 4^2, 8^4\})$	256
8	$\mathcal{O}(0; \{4, 8^6\})$	2048
9	$\mathcal{O}(1; \{9^4\})$	13122
9	$\mathcal{O}(0; \{3^3, 9^4\})$	1296
10	$\mathcal{O}(1; \{5^4\})$	3900
10	$\mathcal{O}(1; \{2^3, 5, 10\})$	400
10	$\mathcal{O}(1; \{2, 10^3\})$	1200
10	$\mathcal{O}(0; \{2^4, 5^4\})$	52
10	$\mathcal{O}(0; \{2^7, 5, 10\})$	4
10	$\mathcal{O}(0; \{2^2, 5^3, 10^2\})$	204
10	$\mathcal{O}(0; \{2^5, 10^3\})$	12
10	$\mathcal{O}(0; \{5^2, 10^4\})$	820
12	$\mathcal{O}(1; \{3^4\})$	648
12	$\mathcal{O}(1; \{2, 3^2, 6\})$	216
12	$\mathcal{O}(1; \{2^2, 6^2\})$	216
12	$\mathcal{O}(1; \{6, 12^2\})$	576
12	$\mathcal{O}(0; \{2, 3^4, 4^2\})$	12
12	$\mathcal{O}(0; \{2^2, 3^2, 4^2, 6\})$	4
12	$\mathcal{O}(0; \{2^3, 4^2, 6^2\})$	4
12	$\mathcal{O}(0; \{4^4, 6^2\})$	16

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	$\mathcal{O}(0; \{3, 4^2, 6^3\})$	12
12	$\mathcal{O}(0; \{2^2, 3^3, 4, 12\})$	12
12	$\mathcal{O}(0; \{2^3, 3, 4, 6, 12\})$	4
12	$\mathcal{O}(0; \{3, 4^3, 6, 12\})$	16
12	$\mathcal{O}(0; \{3^2, 4, 6^2, 12\})$	20
12	$\mathcal{O}(0; \{2, 4, 6^3, 12\})$	12
12	$\mathcal{O}(0; \{2^3, 3^2, 12^2\})$	12
12	$\mathcal{O}(0; \{3^2, 4^2, 12^2\})$	48
12	$\mathcal{O}(0; \{2^4, 6, 12^2\})$	4
12	$\mathcal{O}(0; \{3^3, 6, 12^2\})$	44
12	$\mathcal{O}(0; \{2, 4^2, 6, 12^2\})$	16
12	$\mathcal{O}(0; \{2, 3, 6^2, 12^2\})$	20
12	$\mathcal{O}(0; \{2, 3, 4, 12^3\})$	48
12	$\mathcal{O}(0; \{2^2, 12^4\})$	48
14	$\mathcal{O}(1; \{2, 7, 14\})$	1176
14	$\mathcal{O}(0; \{2^5, 7, 14\})$	6
14	$\mathcal{O}(0; \{2^3, 14^3\})$	30
15	$\mathcal{O}(0; \{3, 5^2, 15^2\})$	104
15	$\mathcal{O}(0; \{3^2, 15^3\})$	120
16	$\mathcal{O}(2; \emptyset)$	61440
16	$\mathcal{O}(1; \{2^4\})$	192
16	$\mathcal{O}(1; \{2, 4^2\})$	384
16	$\mathcal{O}(0; \{2, 4, 8, 16^2\})$	64
17	$\mathcal{O}(1; \{17^2\})$	4624
18	$\mathcal{O}(1; \{9^2\})$	1458
18	$\mathcal{O}(0; \{2^4, 9^2\})$	6
18	$\mathcal{O}(0; \{2, 3, 6, 9^2\})$	24
18	$\mathcal{O}(0; \{2^2, 9, 18^2\})$	18
18	$\mathcal{O}(0; \{18^4\})$	162
20	$\mathcal{O}(1; \{5^2\})$	1200
20	$\mathcal{O}(0; \{2, 4^2, 5^2\})$	8
20	$\mathcal{O}(0; \{2^2, 4, 10, 20\})$	8
20	$\mathcal{O}(0; \{5, 10, 20^2\})$	104
20	$\mathcal{O}(0; \{4, 20^3\})$	96
21	$\mathcal{O}(0; \{3, 21^3\})$	180
24	$\mathcal{O}(1; \{3^2\})$	864
24	$\mathcal{O}(0; \{3, 8^2, 12\})$	16
24	$\mathcal{O}(0; \{3, 6, 8, 24\})$	8
24	$\mathcal{O}(0; \{3, 4, 24^2\})$	16
24	$\mathcal{O}(0; \{2, 12, 24^2\})$	16
28	$\mathcal{O}(0; \{2, 4, 14, 28\})$	12
30	$\mathcal{O}(0; \{2, 5, 6, 15\})$	8
30	$\mathcal{O}(0; \{2, 3, 15, 30\})$	8

Continued on next page

Table 7 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
32	$\mathcal{O}(1; \{2^2\})$	768
34	$\mathcal{O}(0; \{2^2, 34^2\})$	16
35	$\mathcal{O}(0; \{35^3\})$	360
36	$\mathcal{O}(0; \{18, 36^2\})$	36
40	$\mathcal{O}(0; \{8, 20, 40\})$	32
42	$\mathcal{O}(0; \{6, 21, 42\})$	12
51	$\mathcal{O}(0; \{3, 51^2\})$	32
68	$\mathcal{O}(0; \{2, 68^2\})$	32
70	$\mathcal{O}(0; \{2, 35, 70\})$	24

Table 8: 18-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_O(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(18; \emptyset)$	1
2	$\mathcal{O}(9; \{2^2\})$	262144
2	$\mathcal{O}(8; \{2^6\})$	65536
2	$\mathcal{O}(7; \{2^{10}\})$	16384
2	$\mathcal{O}(6; \{2^{14}\})$	4096
2	$\mathcal{O}(5; \{2^{18}\})$	1024
2	$\mathcal{O}(4; \{2^{22}\})$	256
2	$\mathcal{O}(3; \{2^{26}\})$	64
2	$\mathcal{O}(2; \{2^{30}\})$	16
2	$\mathcal{O}(1; \{2^{34}\})$	4
2	$\mathcal{O}(0; \{2^{38}\})$	1
3	$\mathcal{O}(6; \{3^2\})$	1062882
3	$\mathcal{O}(5; \{3^5\})$	590490
3	$\mathcal{O}(4; \{3^8\})$	564246
3	$\mathcal{O}(3; \{3^{11}\})$	497178
3	$\mathcal{O}(2; \{3^{14}\})$	442422
3	$\mathcal{O}(1; \{3^{17}\})$	393210
3	$\mathcal{O}(0; \{3^{20}\})$	349526
4	$\mathcal{O}(4; \{2^2, 4^2\})$	131072
4	$\mathcal{O}(3; \{2^6, 4^2\})$	8192
4	$\mathcal{O}(3; \{2^3, 4^4\})$	32768
4	$\mathcal{O}(3; \{4^6\})$	131072
4	$\mathcal{O}(2; \{2^{10}, 4^2\})$	512
4	$\mathcal{O}(2; \{2^7, 4^4\})$	2048
4	$\mathcal{O}(2; \{2^4, 4^6\})$	8192
4	$\mathcal{O}(2; \{2, 4^8\})$	32768
4	$\mathcal{O}(1; \{2^{14}, 4^2\})$	32

Continued on next page

Table 8 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
4	$\mathcal{O}(1; \{2^{11}, 4^4\})$	128
4	$\mathcal{O}(1; \{2^8, 4^6\})$	512
4	$\mathcal{O}(1; \{2^5, 4^8\})$	2048
4	$\mathcal{O}(1; \{2^2, 4^{10}\})$	8192
4	$\mathcal{O}(0; \{2^{18}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^{15}, 4^4\})$	8
4	$\mathcal{O}(0; \{2^{12}, 4^6\})$	32
4	$\mathcal{O}(0; \{2^9, 4^8\})$	128
4	$\mathcal{O}(0; \{2^6, 4^{10}\})$	512
4	$\mathcal{O}(0; \{2^3, 4^{12}\})$	2048
4	$\mathcal{O}(0; \{4^{14}\})$	8192
5	$\mathcal{O}(2; \{5^6\})$	512500
5	$\mathcal{O}(0; \{5^{11}\})$	838860
6	$\mathcal{O}(3; \{6^2\})$	93312
6	$\mathcal{O}(2; \{2^2, 3^4\})$	7776
6	$\mathcal{O}(2; \{2^3, 3^2, 6\})$	2592
6	$\mathcal{O}(2; \{2^4, 6^2\})$	2592
6	$\mathcal{O}(2; \{3^3, 6^2\})$	12960
6	$\mathcal{O}(2; \{2, 3, 6^3\})$	7776
6	$\mathcal{O}(1; \{2^6, 3^4\})$	216
6	$\mathcal{O}(1; \{2^2, 3^7\})$	1512
6	$\mathcal{O}(1; \{2^7, 3^2, 6\})$	72
6	$\mathcal{O}(1; \{2^3, 3^5, 6\})$	792
6	$\mathcal{O}(1; \{2^8, 6^2\})$	72
6	$\mathcal{O}(1; \{2^4, 3^3, 6^2\})$	360
6	$\mathcal{O}(1; \{3^6, 6^2\})$	3096
6	$\mathcal{O}(1; \{2^5, 3, 6^3\})$	216
6	$\mathcal{O}(1; \{2, 3^4, 6^3\})$	1512
6	$\mathcal{O}(1; \{2^2, 3^2, 6^4\})$	792
6	$\mathcal{O}(1; \{2^3, 6^5\})$	360
6	$\mathcal{O}(1; \{3, 6^6\})$	1512
6	$\mathcal{O}(0; \{2^{10}, 3^4\})$	6
6	$\mathcal{O}(0; \{2^6, 3^7\})$	42
6	$\mathcal{O}(0; \{2^2, 3^{10}\})$	342
6	$\mathcal{O}(0; \{2^{11}, 3^2, 6\})$	2
6	$\mathcal{O}(0; \{2^7, 3^5, 6\})$	22
6	$\mathcal{O}(0; \{2^3, 3^8, 6\})$	170
6	$\mathcal{O}(0; \{2^{12}, 6^2\})$	2
6	$\mathcal{O}(0; \{2^8, 3^3, 6^2\})$	10
6	$\mathcal{O}(0; \{2^4, 3^6, 6^2\})$	86
6	$\mathcal{O}(0; \{3^9, 6^2\})$	682
6	$\mathcal{O}(0; \{2^9, 3, 6^3\})$	6
6	$\mathcal{O}(0; \{2^5, 3^4, 6^3\})$	42

Continued on next page

Table 8 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
6	$\mathcal{O}(0; \{2, 3^7, 6^3\})$	342
6	$\mathcal{O}(0; \{2^6, 3^2, 6^4\})$	22
6	$\mathcal{O}(0; \{2^2, 3^5, 6^4\})$	170
6	$\mathcal{O}(0; \{2^7, 6^5\})$	10
6	$\mathcal{O}(0; \{2^3, 3^3, 6^5\})$	86
6	$\mathcal{O}(0; \{2^4, 3, 6^6\})$	42
6	$\mathcal{O}(0; \{3^4, 6^6\})$	342
6	$\mathcal{O}(0; \{2, 3^2, 6^7\})$	170
6	$\mathcal{O}(0; \{2^2, 6^8\})$	86
7	$\mathcal{O}(0; \{7^8\})$	239946
8	$\mathcal{O}(2; \{2, 8^2\})$	16384
8	$\mathcal{O}(1; \{2^5, 8^2\})$	256
8	$\mathcal{O}(1; \{2^2, 4^2, 8^2\})$	1024
8	$\mathcal{O}(1; \{4, 8^4\})$	8192
8	$\mathcal{O}(0; \{2^9, 8^2\})$	4
8	$\mathcal{O}(0; \{2^6, 4^2, 8^2\})$	16
8	$\mathcal{O}(0; \{2^3, 4^4, 8^2\})$	64
8	$\mathcal{O}(0; \{4^6, 8^2\})$	256
8	$\mathcal{O}(0; \{2^4, 4, 8^4\})$	128
8	$\mathcal{O}(0; \{2, 4^3, 8^4\})$	512
8	$\mathcal{O}(0; \{2^2, 8^6\})$	1024
9	$\mathcal{O}(2; \{9^2\})$	39366
9	$\mathcal{O}(1; \{3^3, 9^2\})$	3888
9	$\mathcal{O}(0; \{3^6, 9^2\})$	384
9	$\mathcal{O}(0; \{3^2, 9^5\})$	3240
10	$\mathcal{O}(1; \{2^2, 5^3\})$	1200
10	$\mathcal{O}(1; \{5^2, 10^2\})$	5200
10	$\mathcal{O}(0; \{2^6, 5^3\})$	12
10	$\mathcal{O}(0; \{2, 5^5, 10\})$	820
10	$\mathcal{O}(0; \{2^4, 5^2, 10^2\})$	52
10	$\mathcal{O}(0; \{2^2, 5, 10^4\})$	204
10	$\mathcal{O}(0; \{10^6\})$	820
12	$\mathcal{O}(1; \{3^2, 4^2\})$	576
12	$\mathcal{O}(1; \{2, 3, 4, 12\})$	576
12	$\mathcal{O}(1; \{2^2, 12^2\})$	576
12	$\mathcal{O}(0; \{2^4, 3^2, 4^2\})$	4
12	$\mathcal{O}(0; \{3^5, 4^2\})$	20
12	$\mathcal{O}(0; \{2, 3^2, 4^4\})$	16
12	$\mathcal{O}(0; \{2, 3^3, 4^2, 6\})$	12
12	$\mathcal{O}(0; \{2^2, 3, 4^2, 6^2\})$	4
12	$\mathcal{O}(0; \{4^2, 6^4\})$	12
12	$\mathcal{O}(0; \{2^5, 3, 4, 12\})$	4
12	$\mathcal{O}(0; \{2, 3^4, 4, 12\})$	20

Continued on next page

Table 8 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
12	$\mathcal{O}(0; \{2^2, 3, 4^3, 12\})$	16
12	$\mathcal{O}(0; \{2^2, 3^2, 4, 6, 12\})$	12
12	$\mathcal{O}(0; \{2^3, 4, 6^2, 12\})$	4
12	$\mathcal{O}(0; \{4^3, 6^2, 12\})$	16
12	$\mathcal{O}(0; \{3, 4, 6^3, 12\})$	20
12	$\mathcal{O}(0; \{2^6, 12^2\})$	4
12	$\mathcal{O}(0; \{2^2, 3^3, 12^2\})$	20
12	$\mathcal{O}(0; \{2^3, 4^2, 12^2\})$	16
12	$\mathcal{O}(0; \{4^4, 12^2\})$	64
12	$\mathcal{O}(0; \{2^3, 3, 6, 12^2\})$	12
12	$\mathcal{O}(0; \{3, 4^2, 6, 12^2\})$	48
12	$\mathcal{O}(0; \{3^2, 6^2, 12^2\})$	44
12	$\mathcal{O}(0; \{2, 6^3, 12^2\})$	20
12	$\mathcal{O}(0; \{3^2, 4, 12^3\})$	80
12	$\mathcal{O}(0; \{2, 4, 6, 12^3\})$	48
12	$\mathcal{O}(0; \{2, 3, 12^4\})$	80
13	$\mathcal{O}(0; \{13^3\})$	19140
14	$\mathcal{O}(0; \{2^2, 7^4\})$	186
14	$\mathcal{O}(0; \{7^3, 14^2\})$	1110
15	$\mathcal{O}(0; \{3^4, 5^2\})$	24
15	$\mathcal{O}(0; \{5^3, 15^2\})$	408
15	$\mathcal{O}(0; \{3, 5, 15^3\})$	312
16	$\mathcal{O}(0; \{2^3, 4, 16^2\})$	16
16	$\mathcal{O}(0; \{4^3, 16^2\})$	64
16	$\mathcal{O}(0; \{2, 8^2, 16^2\})$	128
17	$\mathcal{O}(2; \emptyset)$	83520
18	$\mathcal{O}(1; \{18^2\})$	1944
18	$\mathcal{O}(0; \{2, 3, 9^2, 18\})$	36
18	$\mathcal{O}(0; \{2^4, 18^2\})$	6
18	$\mathcal{O}(0; \{3^3, 18^2\})$	48
18	$\mathcal{O}(0; \{2, 3, 6, 18^2\})$	24
19	$\mathcal{O}(0; \{19^4\})$	5526
20	$\mathcal{O}(0; \{2, 4^2, 5, 10\})$	8
20	$\mathcal{O}(0; \{2^2, 5, 20^2\})$	24
20	$\mathcal{O}(0; \{10^2, 20^2\})$	104
21	$\mathcal{O}(0; \{7^2, 21^2\})$	372
24	$\mathcal{O}(0; \{6^2, 8^2\})$	8
24	$\mathcal{O}(0; \{4, 6, 8, 24\})$	16
24	$\mathcal{O}(0; \{3, 8, 12, 24\})$	16
24	$\mathcal{O}(0; \{2^3, 24^2\})$	8
24	$\mathcal{O}(0; \{4^2, 24^2\})$	32
24	$\mathcal{O}(0; \{3, 6, 24^2\})$	24
26	$\mathcal{O}(0; \{2, 13^2, 26\})$	132

Continued on next page

Table 8 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
27	$\mathcal{O}(0; \{3^2, 27^2\})$	72
28	$\mathcal{O}(0; \{4^2, 7^2\})$	12
30	$\mathcal{O}(0; \{3^2, 10^2\})$	8
34	$\mathcal{O}(1; \{2^2\})$	1152
36	$\mathcal{O}(0; \{2^2, 36^2\})$	12
37	$\mathcal{O}(0; \{37^3\})$	1260
38	$\mathcal{O}(0; \{2^2, 19^2\})$	18
38	$\mathcal{O}(0; \{19, 38^2\})$	306
39	$\mathcal{O}(0; \{13, 39^2\})$	264
40	$\mathcal{O}(0; \{10, 40^2\})$	48
42	$\mathcal{O}(0; \{7, 42^2\})$	60
45	$\mathcal{O}(0; \{5, 45^2\})$	72
48	$\mathcal{O}(0; \{4, 48^2\})$	32
52	$\mathcal{O}(0; \{4, 13, 52\})$	24
54	$\mathcal{O}(0; \{3, 54^2\})$	36
57	$\mathcal{O}(0; \{3, 19, 57\})$	36
72	$\mathcal{O}(0; \{2, 72^2\})$	24
74	$\mathcal{O}(0; \{2, 37, 74\})$	36

Table 9: 19-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(19; \emptyset)$	1
2	$\mathcal{O}(10; \emptyset)$	1048575
2	$\mathcal{O}(9; \{2^4\})$	262144
2	$\mathcal{O}(8; \{2^8\})$	65536
2	$\mathcal{O}(7; \{2^{12}\})$	16384
2	$\mathcal{O}(6; \{2^{16}\})$	4096
2	$\mathcal{O}(5; \{2^{20}\})$	1024
2	$\mathcal{O}(4; \{2^{24}\})$	256
2	$\mathcal{O}(3; \{2^{28}\})$	64
2	$\mathcal{O}(2; \{2^{32}\})$	16
2	$\mathcal{O}(1; \{2^{36}\})$	4
2	$\mathcal{O}(0; \{2^{40}\})$	1
3	$\mathcal{O}(7; \emptyset)$	4782968
3	$\mathcal{O}(6; \{3^3\})$	1062882
3	$\mathcal{O}(5; \{3^6\})$	1299078
3	$\mathcal{O}(4; \{3^9\})$	1115370
3	$\mathcal{O}(3; \{3^{12}\})$	995814
3	$\mathcal{O}(2; \{3^{15}\})$	884682

Continued on next page

Table 9 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
3	$\mathcal{O}(1; \{3^{18}\})$	786438
3	$\mathcal{O}(0; \{3^{21}\})$	699050
4	$\mathcal{O}(5; \{2^2\})$	1047552
4	$\mathcal{O}(4; \{2^6\})$	65280
4	$\mathcal{O}(4; \{2^3, 4^2\})$	131072
4	$\mathcal{O}(4; \{4^4\})$	524288
4	$\mathcal{O}(3; \{2^{10}\})$	4032
4	$\mathcal{O}(3; \{2^7, 4^2\})$	8192
4	$\mathcal{O}(3; \{2^4, 4^4\})$	32768
4	$\mathcal{O}(3; \{2, 4^6\})$	131072
4	$\mathcal{O}(2; \{2^{14}\})$	240
4	$\mathcal{O}(2; \{2^{11}, 4^2\})$	512
4	$\mathcal{O}(2; \{2^8, 4^4\})$	2048
4	$\mathcal{O}(2; \{2^5, 4^6\})$	8192
4	$\mathcal{O}(2; \{2^2, 4^8\})$	32768
4	$\mathcal{O}(1; \{2^{18}\})$	12
4	$\mathcal{O}(1; \{2^{15}, 4^2\})$	32
4	$\mathcal{O}(1; \{2^{12}, 4^4\})$	128
4	$\mathcal{O}(1; \{2^9, 4^6\})$	512
4	$\mathcal{O}(1; \{2^6, 4^8\})$	2048
4	$\mathcal{O}(1; \{2^3, 4^{10}\})$	8192
4	$\mathcal{O}(1; \{4^{12}\})$	32768
4	$\mathcal{O}(0; \{2^{19}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^{16}, 4^4\})$	8
4	$\mathcal{O}(0; \{2^{13}, 4^6\})$	32
4	$\mathcal{O}(0; \{2^{10}, 4^8\})$	128
4	$\mathcal{O}(0; \{2^7, 4^{10}\})$	512
4	$\mathcal{O}(0; \{2^4, 4^{12}\})$	2048
4	$\mathcal{O}(0; \{2, 4^{14}\})$	8192
5	$\mathcal{O}(3; \{5^4\})$	812500
5	$\mathcal{O}(1; \{5^9\})$	1310700
6	$\mathcal{O}(4; \emptyset)$	1672800
6	$\mathcal{O}(3; \{2^4\})$	46592
6	$\mathcal{O}(3; \{3^3\})$	91854
6	$\mathcal{O}(3; \{2, 3, 6\})$	93312
6	$\mathcal{O}(2; \{2^8\})$	1280
6	$\mathcal{O}(2; \{2^4, 3^3\})$	2592
6	$\mathcal{O}(2; \{3^6\})$	26730
6	$\mathcal{O}(2; \{2^5, 3, 6\})$	2592
6	$\mathcal{O}(2; \{2, 3^4, 6\})$	12960
6	$\mathcal{O}(2; \{2^2, 3^2, 6^2\})$	7776
6	$\mathcal{O}(2; \{2^3, 6^3\})$	2592
6	$\mathcal{O}(2; \{3, 6^4\})$	12960

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	$\mathcal{O}(1; \{2^{12}\})$	32
6	$\mathcal{O}(1; \{2^8, 3^3\})$	72
6	$\mathcal{O}(1; \{2^4, 3^6\})$	792
6	$\mathcal{O}(1; \{3^9\})$	4590
6	$\mathcal{O}(1; \{2^9, 3, 6\})$	72
6	$\mathcal{O}(1; \{2^5, 3^4, 6\})$	360
6	$\mathcal{O}(1; \{2, 3^7, 6\})$	3096
6	$\mathcal{O}(1; \{2^6, 3^2, 6^2\})$	216
6	$\mathcal{O}(1; \{2^2, 3^5, 6^2\})$	1512
6	$\mathcal{O}(1; \{2^7, 6^3\})$	72
6	$\mathcal{O}(1; \{2^3, 3^3, 6^3\})$	792
6	$\mathcal{O}(1; \{2^4, 3, 6^4\})$	360
6	$\mathcal{O}(1; \{3^4, 6^4\})$	3096
6	$\mathcal{O}(1; \{2, 3^2, 6^5\})$	1512
6	$\mathcal{O}(1; \{2^2, 6^6\})$	792
6	$\mathcal{O}(0; \{2^{12}, 3^3\})$	2
6	$\mathcal{O}(0; \{2^8, 3^6\})$	22
6	$\mathcal{O}(0; \{2^4, 3^9\})$	170
6	$\mathcal{O}(0; \{2^{13}, 3, 6\})$	2
6	$\mathcal{O}(0; \{2^9, 3^4, 6\})$	10
6	$\mathcal{O}(0; \{2^5, 3^7, 6\})$	86
6	$\mathcal{O}(0; \{2, 3^{10}, 6\})$	682
6	$\mathcal{O}(0; \{2^{10}, 3^2, 6^2\})$	6
6	$\mathcal{O}(0; \{2^6, 3^5, 6^2\})$	42
6	$\mathcal{O}(0; \{2^2, 3^8, 6^2\})$	342
6	$\mathcal{O}(0; \{2^{11}, 6^3\})$	2
6	$\mathcal{O}(0; \{2^7, 3^3, 6^3\})$	22
6	$\mathcal{O}(0; \{2^3, 3^6, 6^3\})$	170
6	$\mathcal{O}(0; \{2^8, 3, 6^4\})$	10
6	$\mathcal{O}(0; \{2^4, 3^4, 6^4\})$	86
6	$\mathcal{O}(0; \{3^7, 6^4\})$	682
6	$\mathcal{O}(0; \{2^5, 3^2, 6^5\})$	42
6	$\mathcal{O}(0; \{2, 3^5, 6^5\})$	342
6	$\mathcal{O}(0; \{2^6, 6^6\})$	22
6	$\mathcal{O}(0; \{2^2, 3^3, 6^6\})$	170
6	$\mathcal{O}(0; \{2^3, 3, 6^7\})$	86
6	$\mathcal{O}(0; \{3^2, 6^8\})$	342
6	$\mathcal{O}(0; \{2, 6^9\})$	170
7	$\mathcal{O}(1; \{7^6\})$	326634
8	$\mathcal{O}(2; \{2^2, 4^2\})$	7680
8	$\mathcal{O}(2; \{4, 8^2\})$	32768
8	$\mathcal{O}(1; \{2^6, 4^2\})$	96
8	$\mathcal{O}(1; \{2^3, 4^4\})$	384

Continued on next page

Table 9 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
8	$\mathcal{O}(1; \{4^6\})$	1536
8	$\mathcal{O}(1; \{2^4, 4, 8^2\})$	512
8	$\mathcal{O}(1; \{2, 4^3, 8^2\})$	2048
8	$\mathcal{O}(1; \{2^2, 8^4\})$	4096
8	$\mathcal{O}(0; \{2^8, 4, 8^2\})$	8
8	$\mathcal{O}(0; \{2^5, 4^3, 8^2\})$	32
8	$\mathcal{O}(0; \{2^2, 4^5, 8^2\})$	128
8	$\mathcal{O}(0; \{2^6, 8^4\})$	64
8	$\mathcal{O}(0; \{2^3, 4^2, 8^4\})$	256
8	$\mathcal{O}(0; \{4^4, 8^4\})$	1024
8	$\mathcal{O}(0; \{2, 4, 8^6\})$	2048
9	$\mathcal{O}(3; \emptyset)$	530712
9	$\mathcal{O}(2; \{3^3\})$	12960
9	$\mathcal{O}(1; \{3^6\})$	1584
9	$\mathcal{O}(1; \{3^2, 9^3\})$	5832
9	$\mathcal{O}(0; \{3^5, 9^3\})$	576
9	$\mathcal{O}(0; \{3, 9^6\})$	10692
10	$\mathcal{O}(2; \{5^2\})$	37500
10	$\mathcal{O}(1; \{2^4, 5^2\})$	400
10	$\mathcal{O}(1; \{2^2, 5, 10^2\})$	1200
10	$\mathcal{O}(1; \{10^4\})$	5200
10	$\mathcal{O}(0; \{2^8, 5^2\})$	4
10	$\mathcal{O}(0; \{2^3, 5^4, 10\})$	204
10	$\mathcal{O}(0; \{2^6, 5, 10^2\})$	12
10	$\mathcal{O}(0; \{2, 5^3, 10^3\})$	820
10	$\mathcal{O}(0; \{2^4, 10^4\})$	52
12	$\mathcal{O}(2; \{2^2\})$	19200
12	$\mathcal{O}(1; \{2^6\})$	96
12	$\mathcal{O}(1; \{2^2, 3^3\})$	216
12	$\mathcal{O}(1; \{2^3, 4^2\})$	256
12	$\mathcal{O}(1; \{4^4\})$	1024
12	$\mathcal{O}(1; \{2^3, 3, 6\})$	216
12	$\mathcal{O}(1; \{3, 4^2, 6\})$	576
12	$\mathcal{O}(1; \{3^2, 6^2\})$	648
12	$\mathcal{O}(1; \{2, 6^3\})$	216
12	$\mathcal{O}(1; \{3^2, 4, 12\})$	576
12	$\mathcal{O}(1; \{2, 4, 6, 12\})$	576
12	$\mathcal{O}(1; \{2, 3, 12^2\})$	576
12	$\mathcal{O}(0; \{2^3, 3^3, 4^2\})$	4
12	$\mathcal{O}(0; \{3^3, 4^4\})$	16
12	$\mathcal{O}(0; \{2^4, 3, 4^2, 6\})$	4
12	$\mathcal{O}(0; \{3^4, 4^2, 6\})$	20
12	$\mathcal{O}(0; \{2, 3, 4^4, 6\})$	16

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	$\mathcal{O}(0; \{2, 3^2, 4^2, 6^2\})$	12
12	$\mathcal{O}(0; \{2^2, 4^2, 6^3\})$	4
12	$\mathcal{O}(0; \{2^4, 3^2, 4, 12\})$	4
12	$\mathcal{O}(0; \{3^5, 4, 12\})$	44
12	$\mathcal{O}(0; \{2, 3^2, 4^3, 12\})$	16
12	$\mathcal{O}(0; \{2^5, 4, 6, 12\})$	4
12	$\mathcal{O}(0; \{2, 3^3, 4, 6, 12\})$	20
12	$\mathcal{O}(0; \{2^2, 4^3, 6, 12\})$	16
12	$\mathcal{O}(0; \{2^2, 3, 4, 6^2, 12\})$	12
12	$\mathcal{O}(0; \{4, 6^4, 12\})$	20
12	$\mathcal{O}(0; \{2^5, 3, 12^2\})$	4
12	$\mathcal{O}(0; \{2, 3^4, 12^2\})$	44
12	$\mathcal{O}(0; \{2^2, 3, 4^2, 12^2\})$	16
12	$\mathcal{O}(0; \{2^2, 3^2, 6, 12^2\})$	20
12	$\mathcal{O}(0; \{2^3, 6^2, 12^2\})$	12
12	$\mathcal{O}(0; \{4^2, 6^2, 12^2\})$	48
12	$\mathcal{O}(0; \{3, 6^3, 12^2\})$	44
12	$\mathcal{O}(0; \{2^3, 4, 12^3\})$	16
12	$\mathcal{O}(0; \{4^3, 12^3\})$	64
12	$\mathcal{O}(0; \{3, 4, 6, 12^3\})$	80
12	$\mathcal{O}(0; \{3^2, 12^4\})$	176
12	$\mathcal{O}(0; \{2, 6, 12^4\})$	80
13	$\mathcal{O}(1; \{13^3\})$	22308
14	$\mathcal{O}(1; \{7^3\})$	4410
14	$\mathcal{O}(0; \{2^4, 7^3\})$	30
14	$\mathcal{O}(0; \{2^2, 7^2, 14^2\})$	186
14	$\mathcal{O}(0; \{7, 14^4\})$	1110
15	$\mathcal{O}(1; \{5^3\})$	2400
15	$\mathcal{O}(1; \{3, 5, 15\})$	1800
15	$\mathcal{O}(0; \{3^3, 5^3\})$	24
15	$\mathcal{O}(0; \{3^4, 5, 15\})$	40
15	$\mathcal{O}(0; \{5^2, 15^3\})$	408
15	$\mathcal{O}(0; \{3, 15^4\})$	520
16	$\mathcal{O}(1; \{2, 8^2\})$	768
16	$\mathcal{O}(0; \{2^3, 8, 16^2\})$	32
16	$\mathcal{O}(0; \{4^2, 8, 16^2\})$	128
16	$\mathcal{O}(0; \{2, 16^4\})$	512
18	$\mathcal{O}(2; \emptyset)$	97200
18	$\mathcal{O}(1; \{2^4\})$	288
18	$\mathcal{O}(1; \{3^3\})$	432
18	$\mathcal{O}(1; \{2, 3, 6\})$	576
18	$\mathcal{O}(0; \{2, 6, 9^3\})$	36
18	$\mathcal{O}(0; \{2^3, 3, 9, 18\})$	12

Continued on next page

Table 9 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
18	$\mathcal{O}(0; \{3^2, 6, 9, 18\})$	48
18	$\mathcal{O}(0; \{2, 6^2, 9, 18\})$	24
18	$\mathcal{O}(0; \{2, 3, 18^3\})$	36
19	$\mathcal{O}(1; \{19^2\})$	6498
20	$\mathcal{O}(1; \{10^2\})$	1200
20	$\mathcal{O}(0; \{2, 4^2, 10^2\})$	8
20	$\mathcal{O}(0; \{2, 4, 5^2, 20\})$	24
20	$\mathcal{O}(0; \{2^2, 10, 20^2\})$	24
20	$\mathcal{O}(0; \{20^4\})$	416
21	$\mathcal{O}(1; \{7^2\})$	2352
21	$\mathcal{O}(0; \{3^3, 7^2\})$	12
21	$\mathcal{O}(0; \{7, 21^3\})$	372
24	$\mathcal{O}(1; \{4^2\})$	768
24	$\mathcal{O}(0; \{6, 8^2, 12\})$	16
24	$\mathcal{O}(0; \{2^2, 3, 8, 24\})$	8
24	$\mathcal{O}(0; \{6^2, 8, 24\})$	8
24	$\mathcal{O}(0; \{4, 8, 12, 24\})$	32
24	$\mathcal{O}(0; \{4, 6, 24^2\})$	16
24	$\mathcal{O}(0; \{3, 12, 24^2\})$	48
26	$\mathcal{O}(0; \{2^3, 13, 26\})$	12
26	$\mathcal{O}(0; \{2, 26^3\})$	132
27	$\mathcal{O}(1; \{3^2\})$	1296
28	$\mathcal{O}(0; \{4^2, 7, 14\})$	12
28	$\mathcal{O}(0; \{2, 7, 28^2\})$	60
30	$\mathcal{O}(0; \{3, 5, 6, 10\})$	8
30	$\mathcal{O}(0; \{2, 6, 15^2\})$	8
30	$\mathcal{O}(0; \{3^2, 10, 30\})$	8
30	$\mathcal{O}(0; \{2, 6, 10, 30\})$	8
30	$\mathcal{O}(0; \{2, 5, 15, 30\})$	24
36	$\mathcal{O}(1; \{2^2\})$	864
38	$\mathcal{O}(0; \{2^2, 38^2\})$	18
39	$\mathcal{O}(0; \{39^3\})$	264
40	$\mathcal{O}(0; \{20, 40^2\})$	96
42	$\mathcal{O}(0; \{14, 21, 42\})$	60
45	$\mathcal{O}(0; \{9, 15, 45\})$	48
48	$\mathcal{O}(0; \{6, 16, 48\})$	16
52	$\mathcal{O}(0; \{4, 26, 52\})$	24
57	$\mathcal{O}(0; \{3, 57^2\})$	36
60	$\mathcal{O}(0; \{3, 20, 60\})$	16
76	$\mathcal{O}(0; \{2, 76^2\})$	36
78	$\mathcal{O}(0; \{2, 39, 78\})$	24

Table 10: 20-admissible orbifolds.

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
1	$\mathcal{O}(20; \emptyset)$	1
2	$\mathcal{O}(10; \{2^2\})$	1048576
2	$\mathcal{O}(9; \{2^6\})$	262144
2	$\mathcal{O}(8; \{2^{10}\})$	65536
2	$\mathcal{O}(7; \{2^{14}\})$	16384
2	$\mathcal{O}(6; \{2^{18}\})$	4096
2	$\mathcal{O}(5; \{2^{22}\})$	1024
2	$\mathcal{O}(4; \{2^{26}\})$	256
2	$\mathcal{O}(3; \{2^{30}\})$	64
2	$\mathcal{O}(2; \{2^{34}\})$	16
2	$\mathcal{O}(1; \{2^{38}\})$	4
2	$\mathcal{O}(0; \{2^{42}\})$	1
3	$\mathcal{O}(6; \{3^4\})$	3188646
3	$\mathcal{O}(5; \{3^7\})$	2480058
3	$\mathcal{O}(4; \{3^{10}\})$	2243862
3	$\mathcal{O}(3; \{3^{13}\})$	1990170
3	$\mathcal{O}(2; \{3^{16}\})$	1769526
3	$\mathcal{O}(1; \{3^{19}\})$	1572858
3	$\mathcal{O}(0; \{3^{22}\})$	1398102
4	$\mathcal{O}(5; \{4^2\})$	2097152
4	$\mathcal{O}(4; \{2^4, 4^2\})$	131072
4	$\mathcal{O}(4; \{2, 4^4\})$	524288
4	$\mathcal{O}(3; \{2^8, 4^2\})$	8192
4	$\mathcal{O}(3; \{2^5, 4^4\})$	32768
4	$\mathcal{O}(3; \{2^2, 4^6\})$	131072
4	$\mathcal{O}(2; \{2^{12}, 4^2\})$	512
4	$\mathcal{O}(2; \{2^9, 4^4\})$	2048
4	$\mathcal{O}(2; \{2^6, 4^6\})$	8192
4	$\mathcal{O}(2; \{2^3, 4^8\})$	32768
4	$\mathcal{O}(2; \{4^{10}\})$	131072
4	$\mathcal{O}(1; \{2^{16}, 4^2\})$	32
4	$\mathcal{O}(1; \{2^{13}, 4^4\})$	128
4	$\mathcal{O}(1; \{2^{10}, 4^6\})$	512
4	$\mathcal{O}(1; \{2^7, 4^8\})$	2048
4	$\mathcal{O}(1; \{2^4, 4^{10}\})$	8192
4	$\mathcal{O}(1; \{2, 4^{12}\})$	32768
4	$\mathcal{O}(0; \{2^{20}, 4^2\})$	2
4	$\mathcal{O}(0; \{2^{17}, 4^4\})$	8
4	$\mathcal{O}(0; \{2^{14}, 4^6\})$	32
4	$\mathcal{O}(0; \{2^{11}, 4^8\})$	128
4	$\mathcal{O}(0; \{2^8, 4^{10}\})$	512
4	$\mathcal{O}(0; \{2^5, 4^{12}\})$	2048

Continued on next page

Table 10 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
4	$\mathcal{O}(0; \{2^2, 4^{14}\})$	8192
5	$\mathcal{O}(4; \{5^2\})$	1562500
5	$\mathcal{O}(2; \{5^7\})$	2047500
5	$\mathcal{O}(0; \{5^{12}\})$	3355444
6	$\mathcal{O}(3; \{2^2, 3^2\})$	93312
6	$\mathcal{O}(3; \{3, 6^2\})$	93312
6	$\mathcal{O}(2; \{2^6, 3^2\})$	2592
6	$\mathcal{O}(2; \{2^2, 3^5\})$	12960
6	$\mathcal{O}(2; \{2^3, 3^3, 6\})$	7776
6	$\mathcal{O}(2; \{2^4, 3, 6^2\})$	2592
6	$\mathcal{O}(2; \{3^4, 6^2\})$	28512
6	$\mathcal{O}(2; \{2, 3^2, 6^3\})$	12960
6	$\mathcal{O}(2; \{2^2, 6^4\})$	7776
6	$\mathcal{O}(1; \{2^{10}, 3^2\})$	72
6	$\mathcal{O}(1; \{2^6, 3^5\})$	360
6	$\mathcal{O}(1; \{2^2, 3^8\})$	3096
6	$\mathcal{O}(1; \{2^7, 3^3, 6\})$	216
6	$\mathcal{O}(1; \{2^3, 3^6, 6\})$	1512
6	$\mathcal{O}(1; \{2^8, 3, 6^2\})$	72
6	$\mathcal{O}(1; \{2^4, 3^4, 6^2\})$	792
6	$\mathcal{O}(1; \{3^7, 6^2\})$	6120
6	$\mathcal{O}(1; \{2^5, 3^2, 6^3\})$	360
6	$\mathcal{O}(1; \{2, 3^5, 6^3\})$	3096
6	$\mathcal{O}(1; \{2^6, 6^4\})$	216
6	$\mathcal{O}(1; \{2^2, 3^3, 6^4\})$	1512
6	$\mathcal{O}(1; \{2^3, 3, 6^5\})$	792
6	$\mathcal{O}(1; \{3^2, 6^6\})$	3096
6	$\mathcal{O}(1; \{2, 6^7\})$	1512
6	$\mathcal{O}(0; \{2^{14}, 3^2\})$	2
6	$\mathcal{O}(0; \{2^{10}, 3^5\})$	10
6	$\mathcal{O}(0; \{2^6, 3^8\})$	86
6	$\mathcal{O}(0; \{2^2, 3^{11}\})$	682
6	$\mathcal{O}(0; \{2^{11}, 3^3, 6\})$	6
6	$\mathcal{O}(0; \{2^7, 3^6, 6\})$	42
6	$\mathcal{O}(0; \{2^3, 3^9, 6\})$	342
6	$\mathcal{O}(0; \{2^{12}, 3, 6^2\})$	2
6	$\mathcal{O}(0; \{2^8, 3^4, 6^2\})$	22
6	$\mathcal{O}(0; \{2^4, 3^7, 6^2\})$	170
6	$\mathcal{O}(0; \{3^{10}, 6^2\})$	1366
6	$\mathcal{O}(0; \{2^9, 3^2, 6^3\})$	10
6	$\mathcal{O}(0; \{2^5, 3^5, 6^3\})$	86
6	$\mathcal{O}(0; \{2, 3^8, 6^3\})$	682
6	$\mathcal{O}(0; \{2^{10}, 6^4\})$	6

Continued on next page

Table 10 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
6	$\mathcal{O}(0; \{2^6, 3^3, 6^4\})$	42
6	$\mathcal{O}(0; \{2^2, 3^6, 6^4\})$	342
6	$\mathcal{O}(0; \{2^7, 3, 6^5\})$	22
6	$\mathcal{O}(0; \{2^3, 3^4, 6^5\})$	170
6	$\mathcal{O}(0; \{2^4, 3^2, 6^6\})$	86
6	$\mathcal{O}(0; \{3^5, 6^6\})$	682
6	$\mathcal{O}(0; \{2^5, 6^7\})$	42
6	$\mathcal{O}(0; \{2, 3^3, 6^7\})$	342
6	$\mathcal{O}(0; \{2^2, 3, 6^8\})$	170
6	$\mathcal{O}(0; \{6^{10}\})$	342
7	$\mathcal{O}(2; \{7^4\})$	446586
8	$\mathcal{O}(2; \{2^2, 8^2\})$	16384
8	$\mathcal{O}(1; \{2^6, 8^2\})$	256
8	$\mathcal{O}(1; \{2^3, 4^2, 8^2\})$	1024
8	$\mathcal{O}(1; \{4^4, 8^2\})$	4096
8	$\mathcal{O}(1; \{2, 4, 8^4\})$	8192
8	$\mathcal{O}(0; \{2^{10}, 8^2\})$	4
8	$\mathcal{O}(0; \{2^7, 4^2, 8^2\})$	16
8	$\mathcal{O}(0; \{2^4, 4^4, 8^2\})$	64
8	$\mathcal{O}(0; \{2, 4^6, 8^2\})$	256
8	$\mathcal{O}(0; \{2^5, 4, 8^4\})$	128
8	$\mathcal{O}(0; \{2^2, 4^3, 8^4\})$	512
8	$\mathcal{O}(0; \{2^3, 8^6\})$	1024
8	$\mathcal{O}(0; \{4^2, 8^6\})$	4096
9	$\mathcal{O}(1; \{3, 9^4\})$	26244
9	$\mathcal{O}(0; \{3^4, 9^4\})$	2592
9	$\mathcal{O}(0; \{9^7\})$	30618
10	$\mathcal{O}(2; \{10^2\})$	40000
10	$\mathcal{O}(1; \{2, 5^3, 10\})$	5200
10	$\mathcal{O}(1; \{2^4, 10^2\})$	400
10	$\mathcal{O}(0; \{2^2, 5^6\})$	820
10	$\mathcal{O}(0; \{2^5, 5^3, 10\})$	52
10	$\mathcal{O}(0; \{2^8, 10^2\})$	4
10	$\mathcal{O}(0; \{5^5, 10^2\})$	3276
10	$\mathcal{O}(0; \{2^3, 5^2, 10^3\})$	204
10	$\mathcal{O}(0; \{2, 5, 10^5\})$	820
11	$\mathcal{O}(0; \{11^6\})$	90910
12	$\mathcal{O}(1; \{4^2, 6^2\})$	576
12	$\mathcal{O}(1; \{3, 4, 6, 12\})$	576
12	$\mathcal{O}(1; \{3^2, 12^2\})$	1728
12	$\mathcal{O}(1; \{2, 6, 12^2\})$	576
12	$\mathcal{O}(0; \{2^2, 3^4, 4^2\})$	12
12	$\mathcal{O}(0; \{2^3, 3^2, 4^2, 6\})$	4

Continued on next page

Table 10 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
12	$\mathcal{O}(0; \{3^2, 4^4, 6\})$	16
12	$\mathcal{O}(0; \{2^4, 4^2, 6^2\})$	4
12	$\mathcal{O}(0; \{3^3, 4^2, 6^2\})$	20
12	$\mathcal{O}(0; \{2, 4^4, 6^2\})$	16
12	$\mathcal{O}(0; \{2, 3, 4^2, 6^3\})$	12
12	$\mathcal{O}(0; \{2^3, 3^3, 4, 12\})$	12
12	$\mathcal{O}(0; \{3^3, 4^3, 12\})$	48
12	$\mathcal{O}(0; \{2^4, 3, 4, 6, 12\})$	4
12	$\mathcal{O}(0; \{3^4, 4, 6, 12\})$	44
12	$\mathcal{O}(0; \{2, 3, 4^3, 6, 12\})$	16
12	$\mathcal{O}(0; \{2, 3^2, 4, 6^2, 12\})$	20
12	$\mathcal{O}(0; \{2^2, 4, 6^3, 12\})$	12
12	$\mathcal{O}(0; \{2^4, 3^2, 12^2\})$	12
12	$\mathcal{O}(0; \{3^5, 12^2\})$	84
12	$\mathcal{O}(0; \{2, 3^2, 4^2, 12^2\})$	48
12	$\mathcal{O}(0; \{2^5, 6, 12^2\})$	4
12	$\mathcal{O}(0; \{2, 3^3, 6, 12^2\})$	44
12	$\mathcal{O}(0; \{2^2, 4^2, 6, 12^2\})$	16
12	$\mathcal{O}(0; \{2^2, 3, 6^2, 12^2\})$	20
12	$\mathcal{O}(0; \{6^4, 12^2\})$	44
12	$\mathcal{O}(0; \{2^2, 3, 4, 12^3\})$	48
12	$\mathcal{O}(0; \{4, 6^2, 12^3\})$	80
12	$\mathcal{O}(0; \{2^3, 12^4\})$	48
12	$\mathcal{O}(0; \{4^2, 12^4\})$	192
12	$\mathcal{O}(0; \{3, 6, 12^4\})$	176
14	$\mathcal{O}(1; \{2^2, 7^2\})$	1176
14	$\mathcal{O}(1; \{7, 14^2\})$	5880
14	$\mathcal{O}(0; \{2^6, 7^2\})$	6
14	$\mathcal{O}(0; \{2^4, 7, 14^2\})$	30
14	$\mathcal{O}(0; \{2^2, 14^4\})$	186
15	$\mathcal{O}(1; \{3, 15^2\})$	1800
15	$\mathcal{O}(0; \{3^2, 5^4\})$	104
15	$\mathcal{O}(0; \{3^3, 5^2, 15\})$	72
15	$\mathcal{O}(0; \{3^4, 15^2\})$	88
15	$\mathcal{O}(0; \{5, 15^4\})$	1224
16	$\mathcal{O}(1; \{2, 16^2\})$	2048
16	$\mathcal{O}(0; \{2^5, 16^2\})$	8
16	$\mathcal{O}(0; \{2^2, 4^2, 16^2\})$	32
16	$\mathcal{O}(0; \{4, 8^2, 16^2\})$	256
18	$\mathcal{O}(0; \{2^2, 3^2, 9^2\})$	24
18	$\mathcal{O}(0; \{2^3, 6, 9^2\})$	12
18	$\mathcal{O}(0; \{3, 6^2, 9^2\})$	48
18	$\mathcal{O}(0; \{2, 9^3, 18\})$	162

Continued on next page

Table 10 – continued from previous page

Order of \mathbb{Z}_ℓ	Orbifold	$\text{Epi}_{\mathcal{O}}(\pi_0(\mathcal{O}), \mathbb{Z}_\ell)$
18	$\mathcal{O}(0; \{3^2, 9, 18^2\})$	72
18	$\mathcal{O}(0; \{2, 6, 9, 18^2\})$	36
19	$\mathcal{O}(2; \emptyset)$	130320
20	$\mathcal{O}(1; \{20^2\})$	3200
20	$\mathcal{O}(0; \{4^2, 5^3\})$	24
20	$\mathcal{O}(0; \{2, 4, 5, 10, 20\})$	24
20	$\mathcal{O}(0; \{2^4, 20^2\})$	8
20	$\mathcal{O}(0; \{2, 4^2, 20^2\})$	32
21	$\mathcal{O}(0; \{3^3, 7, 21\})$	36
21	$\mathcal{O}(0; \{21^4\})$	1116
22	$\mathcal{O}(0; \{2^2, 11^3\})$	90
22	$\mathcal{O}(0; \{11^2, 22^2\})$	910
24	$\mathcal{O}(0; \{2, 3^2, 8^2\})$	8
24	$\mathcal{O}(0; \{8^2, 12^2\})$	32
24	$\mathcal{O}(0; \{6, 8, 12, 24\})$	16
24	$\mathcal{O}(0; \{2^2, 3, 24^2\})$	8
24	$\mathcal{O}(0; \{6^2, 24^2\})$	24
24	$\mathcal{O}(0; \{4, 12, 24^2\})$	32
25	$\mathcal{O}(0; \{5^2, 25^2\})$	320
28	$\mathcal{O}(0; \{4^2, 14^2\})$	12
28	$\mathcal{O}(0; \{2, 14, 28^2\})$	60
30	$\mathcal{O}(0; \{5^2, 6^2\})$	8
30	$\mathcal{O}(0; \{2, 10, 15^2\})$	24
30	$\mathcal{O}(0; \{3, 5, 6, 30\})$	8
30	$\mathcal{O}(0; \{3^2, 30^2\})$	24
30	$\mathcal{O}(0; \{2, 6, 30^2\})$	8
32	$\mathcal{O}(0; \{2, 4, 32^2\})$	32
33	$\mathcal{O}(0; \{3^2, 11^2\})$	20
38	$\mathcal{O}(1; \{2^2\})$	1440
40	$\mathcal{O}(0; \{2^2, 40^2\})$	16
41	$\mathcal{O}(0; \{41^3\})$	1560
42	$\mathcal{O}(0; \{2^2, 21^2\})$	12
42	$\mathcal{O}(0; \{21, 42^2\})$	60
44	$\mathcal{O}(0; \{11, 44^2\})$	180
45	$\mathcal{O}(0; \{9, 45^2\})$	72
48	$\mathcal{O}(0; \{6, 48^2\})$	16
50	$\mathcal{O}(0; \{5, 50^2\})$	80
55	$\mathcal{O}(0; \{5, 11, 55\})$	40
60	$\mathcal{O}(0; \{3, 60^2\})$	16
80	$\mathcal{O}(0; \{2, 80^2\})$	32
82	$\mathcal{O}(0; \{2, 41, 82\})$	40