n	$\mathrm{rad}(H_4^n), \mathrm{rad}(H_4^n)+1, \ldots, \mathrm{diam}(H_4^n)$ number of states with given eccentricity number of nonequivalent states with given eccentricity	$\mathrm{diam}-\mathrm{rad}+1$ $\lvert V(H_4^n)\rvert = 4^n$ $\lvert V(H_4^n)/\sim\rvert$
1	1 4 1	1 4 1
2	3 16 2	1 16 2
3	4 5 24 40 1 4	2 64 5
4	7 8 9 144 96 16 6 7 2	3 256 15
5	10 11 12 13 528 360 120 16 22 18 9 2	4 1024 51
6	13 14 15 16 17 168 1776 1644 492 16 7 74 74 30 2	5 4096 187
7	18 19 20 21 22 23 24 25 624 3840 6600 3300 1740 216 48 16 26 160 275 148 89 12 3 2	8 16384 715
8	24 25 26 27 28 29 30 31 32 33 3024 12648 19464 16968 9312 3120 720 216 48 16 126 527 811 716 407 148 43 12 3 2	10 65536 2795
9	30 31 32 33 34 35 36 37 38 39 40 41 1416 14304 43680 64152 60732 44604 22824 8160 1764 408 84 16 59 596 1820 2675 2541 1884 976 378 94 21 5 2	12 262144 11051
10	37 38 39 40 41 42 43 44 45 46 47 48 49 216 5712 36960 105696 175236 212916 182964 151560 120492 49164 6924 696 40 9 238 1540 4404 7305 8895 7659 6353 5086 2099 308 47 4	13 1048576 43947
11	47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 1056 16344 86640 222792 376368 532632 680340 676740 530412 453348 351300 180552 65556 17172 2208 588 192 48 16 44 681 3610 9283 15682 22193 28354 28242 22163 18952 14735 7622 2773 782 113 31 10 3 2	19 4194304 175275
12	58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 888 14952 82152 294384 679320 1118016 1601184 2072796 2382564 2339508 2086644 1601484 1165140 726252 382056 162204 51288 11352 3540 816 420 192 48 16 37 623 3423 12266 28305 46584 66716 86373 99307 97536 87023 66855 48672 30391 16099 6871 2237 514 165 43 20 10 3 2	16777216 700075
13	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 2208 57072 304512 859920 1775040 3016992 4411860 5865324 7217148 8163192 8291976 7605612 6295548 4836540 3616272 2486316 1437492 618204 192816 41124 9108 3096 816 420 192 48 16 92 2378 12688 35830 73960 125708 183832 244402 300730 340177 345608 317005 262492 201766 150876 103837 60218 26004 8190 1824 413 142 44 20 10 3 2	67108864 2798251

Tab. 1: Eccentricities in H_4^n

n	$\mathrm{rad}(H_4^n)$	$\mathrm{diam}(H_4^n)$	$\mathrm{diam}-\mathrm{rad}+1$	$\lvert C(H_4^n)\rvert$	$\lvert C(H_4^n)/\sim\rvert$	$\lvert P(H_4^n)\rvert$	$\lvert P(H_4^n)/\sim\rvert$	$\overline{\varepsilon}$
1	1	1	1	4	1	4	1	1.0000
2	3	3	1	16	2	16	2	3.0000
3	4	5	2	24	1	40	4	4.6250
4	7	9	3	144	6	16	2	7.5000
5	10	13	4	528	22	16	2	10.6328
6	13	17	5	168	7	16	2	14.6123
7	18	25	8	624	26	16	2	20.1594
8	24	33	10	3024	126	16	2	26.4672
9	30	41	12	1416	59	16	2	33.7114
10	37	49	13	216	9	40	4	42.5358
11	47	65	19	1056	44	16	2	53.8479
12	58	81	24	888	37	16	2	66.6067
13	71	97	27	2208	92	16	2	80.7622

Tab. 2: Radius, diameter and $\overline{\varepsilon}$ of H_4^n

n	$\mathrm{rad}(H_5^n), \mathrm{rad}(H_5^n)+1, \ldots, \mathrm{diam}(H_5^n)$ number of states with given eccentricity number of nonequivalent states with given eccentricity	$\mathrm{diam}-\mathrm{rad}+1$ $\lvert V(H_5^n)\rvert = 5^n$ $\lvert V(H_5^n)/\sim\rvert$
1	1 5 1	1 5 1
2	3 25 2	1 25 2
3	4 5 60 65 1 4	2 125 5
4	6 7 480 145 7 8	2 625 15
5	8 9 10 11 1380 1380 340 25 13 22 15 2	4 3125 52
6	10 11 12 13 14 15 1560 7440 5040 1300 260 25 13 71 71 34 11 2	6 15625 202
7	13 14 15 16 17 18 19 14400 33540 21480 6700 1680 300 25 120 311 253 109 47 13 2	7 78125 855
8	15 16 17 18 19 20 21 22 23 120 36240 165240 126000 48360 12000 2300 340 25 1 302 1394 1246 599 214 72 15 2	9 390625 3845
9	19 20 21 22 23 24 25 26 27 23760 368760 810060 533460 174780 35900 5840 540 25 198 3073 6891 5087 1973 588 169 21 2	9 1953125 18002
10	22 23 24 25 26 27 28 29 30 31 2040 158040 1285440 3513840 3235800 1272240 263500 32780 1920 25 17 1317 10714 29590 28431 12409 3245 673 74 2	10 9765625 86472
11	27 28 29 30 31 32 33 34 35 36 37 38 39 70560 1199280 6668160 15691380 14987040 7388040 2293860 453680 68220 7000 780 100 25 588 9994 55602 131481 128028 66206 22800 5794 1314 173 20 3 2	11 48828125 422005

Tab. 3: Eccentricities in H_5^n

n	$\mathrm{rad}(H_5^n)$	$\mathrm{diam}(H_5^n)$	$\mathrm{diam}-\mathrm{rad}+1$	$\lvert C(H_5^n)\rvert$	$\lvert C(H_5^n)/\sim\rvert$	$\lvert P(H_5^n)\rvert$	$\lvert P(H_5^n)/\sim\rvert$	$\overline{\varepsilon}$
1	1	1	1	5	1	5	1	1.0000
2	3	3	1	25	2	25	2	3.0000
3	4	5	2	60	1	65	4	4.5200
4	6	7	2	480	7	145	8	6.2320
5	8	11	4	1380	13	25	2	8.6832
6	10	15	6	1560	13	25	2	11.4454
7	13	19	7	14400	120	25	2	14.3436
8	15	23	9	120	1	25	2	17.5972
9	19	27	9	23760	198	25	2	21.3075
10	22	31	10	2040	17	25	2	25.5227
11	27	39	13	70560	588	25	2	30.6056

Tab. 4: Radius, diameter and $\overline{\epsilon}$ of H_5^n

n	$\mathrm{rad}(H_6^n), \mathrm{rad}(H_6^n)+1, \ldots, \mathrm{diam}(H_6^n)$ number of states with given eccentricity number of nonequivalent states with given eccentricity	$\mathrm{diam}-\mathrm{rad}+1$ $\lvert V(H_6^n)\rvert = 6^n$ $\lvert V(H_6^n)/\sim\rvert$
1	1 6 1	1 6 1
2	3 36 2	1 36 2
3	4 5 120 96 1 4	2 216 5
4	6 7 1080 216 7 8	2 1296 15
5	7 8 9 720 6600 456 1 35 16	3 7776 52
6	9 10 11 12 13 10800 26760 8040 1020 36 15 90 65 31 2	5 46656 203
7	11 12 13 14 15 16 17 28800 130680 90480 25680 3780 480 36 40 258 317 179 67 13 2	7 279936 876
8	13 14 15 16 17 18 19 20 21 29520 452880 688680 378720 103680 21660 3900 540 36 41 707 1351 1207 534 192 62 15 2	9 1679616 4111
9	16 17 18 19 20 21 22 23 24 25 846720 3130920 3604680 1772520 551880 137460 28200 4680 600 36 1176 4818 6734 4681 2100 769 272 79 17 2	10 10077696 20648
10	18 19 20 21 22 23 24 25 26 27 28 29 134640 4853520 19969920 20711880 10216320 3443880 897600 196080 36120 5520 660 36 187 6741 28876 35377 21989 10527 3830 1270 383 98 19 2	12 60466176 109299
11	21 22 23 24 25 26 27 28 29 30 31 32 33 548640 18000000 98715960 133117920 75693480 27266160 7436160 1650360 311940 49200 6480 720 36 762 25000 138881 202947 135280 63588 24490 7573 2244 583 121 21 2	13 362797056 601492

Tab. 5: Eccentricities in H_6^n

n	$\mathrm{rad}(H_6^n)$	$\mathrm{diam}(H_6^n)$	$\mathrm{diam}-\mathrm{rad}+1$	$\lvert C(H_6^n)\rvert$	$\lvert C(H_6^n)/\sim\rvert$	$\lvert P(H_6^n)\rvert$	$\lvert P(H_6^n)/\sim\rvert$	$\overline{\varepsilon}$
1	1	1	1	6	1	6	1	1.00000
2	3	3	1	36	2	36	2	3.00000
3	4	5	2	120	1	96	4	4.44444
4	6	7	2	1080	7	216	8	6.16667
5	7	9	3	720	1	456	16	7.96605
6	9	13	5	10800	15	36	2	9.98688
7	11	17	7	28800	40	36	2	12.45180
8	13	21	9	29520	41	36	2	15.09390
9	16	25	10	864720	1176	36	2	17.86150
10	18	29	12	134640	187	36	2	20.84650
11	21	33	13	548640	762	36	2	24.06800

Tab. 6: Radius, diameter and $\overline{\varepsilon}$ of H_6^n

n	$\mathrm{rad}(H_7^n), \mathrm{rad}(H_7^n)+1, \ldots, \mathrm{diam}(H_7^n)$ number of states with given eccentricity number of nonequivalent states with given eccentricity	$\mathrm{diam}-\mathrm{rad}+1$ $\lvert V(H_7^n)\rvert = 7^n$ $\lvert V(H_7^n)/\sim\rvert$
1	1 7 1	1 7 1
2	3 49 2	1 49 2
3	4 5 210 133 1 4	2 343 5
4	6 7 2100 301 7 8	2 2401 15
5	7 8 9 2520 13650 637 1 35 16	3 16807 52
6	9 10 11 42840 73500 1309 16 155 32	3 117649 203
7	10 11 12 13 14 15 5040 456120 322980 36540 2814 49 1 160 480 171 63 2	6 823543 877
8	12 13 14 15 16 17 18 19 45360 2887920 2074380 642810 103950 9534 798 49 9 879 1552 1120 430 132 15 2	8 5764801 4139
9	14 15 16 17 18 19 20 21 22 23 100800 13167000 15760920 8529780 2335620 393960 56784 7812 882 49 20 3441 6354 5998 3710 1147 342 79 17 2	10 40353607 21110
10	17 18 19 20 21 22 23 24 25 26 27 41862240 99132600 89501160 38986500 10356150 2148510 410844 67116 9114 966 49 9174 26921 35825 24992 12592 3933 1252 371 98 19 2	11 282475249 115179

Tab. 7: Eccentricities in H_7^n

n	$\mathrm{rad}(H_7^n)$	$\mathrm{diam}(H_7^n)$	$\mathrm{diam}-\mathrm{rad}+1$	$\lvert C(H_7^n)\rvert$	$\lvert C(H_7^n)/\sim\rvert$	$\lvert P(H_7^n)\rvert$	$\lvert P(H_7^n)/\sim\rvert$	$\overline{\varepsilon}$
1	1	1	1	7	1	7	1	1.00000
2	3	3	1	49	2	49	2	3.00000
3	4	5	2	210	1	133	4	4.38776
4	6	7	2	2100	7	301	8	6.12536
5	7	9	3	2520	1	637	16	7.88796
6	9	11	3	42840	16	1309	32	9.64699
7	10	15	6	5040	1	49	2	11.48530
8	12	19	8	45360	9	49	2	13.63640
9	14	23	10	100800	20	49	2	16.03190
10	17	27	11	41862240	9174	49	2	18.59400

Tab. 8: Radius, diameter and $\overline{\varepsilon}$ of H_7^n