

Rank-74105 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

$$X_1^3 + X_2^3 + X_0^2 X_1 + X_0^2 X_2 + X_0^2 X_3 + X_1^2 X_2 + X_0 X_3^2 + X_0 X_1 X_2 = 0$$

(0, 1, 1, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0)

The point rank of the equation over GF(16) is 304222757

General information

Number of lines	0
Number of points	225
Number of singular points	0
Number of Eckardt points	0
Number of double points	0
Number of single points	0
Number of points off lines	225
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0^{225}

Singular Points

The surface has 0 singular points:

The 0 Lines

The lines and their Pluecker coordinates are:

Rank of lines: ()

Rank of points on Klein quadric: ()

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 0 Double points:

The double points on the surface are:

Single Points

The surface has 0 single points:

The single points on the surface are:

The single points on the surface are:

Points on surface but on no line

The surface has 225 points not on any line:

The points on the surface but not on lines are:

0 : $P_0 = (1, 0, 0, 0)$	27 : $P_{369} = (15, 5, 0, 1)$
1 : $P_3 = (0, 0, 0, 1)$	28 : $P_{405} = (3, 8, 0, 1)$
2 : $P_4 = (1, 1, 1, 1)$	29 : $P_{416} = (14, 8, 0, 1)$
3 : $P_5 = (1, 1, 0, 0)$	30 : $P_{422} = (4, 9, 0, 1)$
4 : $P_{20} = (1, 0, 1, 0)$	31 : $P_{425} = (7, 9, 0, 1)$
5 : $P_{36} = (1, 1, 1, 0)$	32 : $P_{438} = (4, 10, 0, 1)$
6 : $P_{117} = (2, 6, 1, 0)$	33 : $P_{448} = (14, 10, 0, 1)$
7 : $P_{128} = (13, 6, 1, 0)$	34 : $P_{452} = (2, 11, 0, 1)$
8 : $P_{140} = (9, 7, 1, 0)$	35 : $P_{459} = (9, 11, 0, 1)$
9 : $P_{143} = (12, 7, 1, 0)$	36 : $P_{507} = (9, 14, 0, 1)$
10 : $P_{182} = (3, 10, 1, 0)$	37 : $P_{510} = (12, 14, 0, 1)$
11 : $P_{187} = (8, 10, 1, 0)$	38 : $P_{516} = (2, 15, 0, 1)$
12 : $P_{200} = (5, 11, 1, 0)$	39 : $P_{519} = (5, 15, 0, 1)$
13 : $P_{210} = (15, 11, 1, 0)$	40 : $P_{531} = (1, 0, 1, 1)$
14 : $P_{217} = (6, 12, 1, 0)$	41 : $P_{582} = (5, 3, 1, 1)$
15 : $P_{225} = (14, 12, 1, 0)$	42 : $P_{589} = (12, 3, 1, 1)$
16 : $P_{231} = (4, 13, 1, 0)$	43 : $P_{615} = (6, 5, 1, 1)$
17 : $P_{234} = (7, 13, 1, 0)$	44 : $P_{617} = (8, 5, 1, 1)$
18 : $P_{275} = (1, 0, 0, 1)$	45 : $P_{670} = (13, 8, 1, 1)$
19 : $P_{291} = (1, 1, 0, 1)$	46 : $P_{672} = (15, 8, 1, 1)$
20 : $P_{312} = (6, 2, 0, 1)$	47 : $P_{693} = (4, 10, 1, 1)$
21 : $P_{320} = (14, 2, 0, 1)$	48 : $P_{703} = (14, 10, 1, 1)$
22 : $P_{326} = (4, 3, 0, 1)$	49 : $P_{707} = (2, 11, 1, 1)$
23 : $P_{330} = (8, 3, 0, 1)$	50 : $P_{714} = (9, 11, 1, 1)$
24 : $P_{340} = (2, 4, 0, 1)$	51 : $P_{772} = (3, 15, 1, 1)$
25 : $P_{351} = (13, 4, 0, 1)$	52 : $P_{776} = (7, 15, 1, 1)$
26 : $P_{363} = (9, 5, 0, 1)$	53 : $P_{791} = (6, 0, 2, 1)$

54 : $P_{799} = (14, 0, 2, 1)$	108 : $P_{1890} = (1, 5, 6, 1)$
55 : $P_{826} = (9, 2, 2, 1)$	109 : $P_{1891} = (2, 5, 6, 1)$
56 : $P_{829} = (12, 2, 2, 1)$	110 : $P_{1907} = (2, 6, 6, 1)$
57 : $P_{842} = (9, 3, 2, 1)$	111 : $P_{1919} = (14, 6, 6, 1)$
58 : $P_{854} = (5, 4, 2, 1)$	112 : $P_{1926} = (5, 7, 6, 1)$
59 : $P_{855} = (6, 4, 2, 1)$	113 : $P_{1976} = (7, 10, 6, 1)$
60 : $P_{883} = (2, 6, 2, 1)$	114 : $P_{1982} = (13, 10, 6, 1)$
61 : $P_{887} = (6, 6, 2, 1)$	115 : $P_{2083} = (2, 1, 7, 1)$
62 : $P_{931} = (2, 9, 2, 1)$	116 : $P_{2094} = (13, 1, 7, 1)$
63 : $P_{932} = (3, 9, 2, 1)$	117 : $P_{2176} = (15, 6, 7, 1)$
64 : $P_{991} = (14, 12, 2, 1)$	118 : $P_{2181} = (4, 7, 7, 1)$
65 : $P_{995} = (2, 13, 2, 1)$	119 : $P_{2186} = (9, 7, 7, 1)$
66 : $P_{1005} = (12, 13, 2, 1)$	120 : $P_{2231} = (6, 10, 7, 1)$
67 : $P_{1010} = (1, 14, 2, 1)$	121 : $P_{2237} = (12, 10, 7, 1)$
68 : $P_{1023} = (14, 14, 2, 1)$	122 : $P_{2296} = (7, 14, 7, 1)$
69 : $P_{1045} = (4, 0, 3, 1)$	123 : $P_{2306} = (1, 15, 7, 1)$
70 : $P_{1049} = (8, 0, 3, 1)$	124 : $P_{2314} = (9, 15, 7, 1)$
71 : $P_{1079} = (6, 2, 3, 1)$	125 : $P_{2324} = (3, 0, 8, 1)$
72 : $P_{1107} = (2, 4, 3, 1)$	126 : $P_{2335} = (14, 0, 8, 1)$
73 : $P_{1109} = (4, 4, 3, 1)$	127 : $P_{2372} = (3, 3, 8, 1)$
74 : $P_{1154} = (1, 7, 3, 1)$	128 : $P_{2418} = (1, 6, 8, 1)$
75 : $P_{1157} = (4, 7, 3, 1)$	129 : $P_{2431} = (14, 6, 8, 1)$
76 : $P_{1177} = (8, 8, 3, 1)$	130 : $P_{2472} = (7, 9, 8, 1)$
77 : $P_{1220} = (3, 11, 3, 1)$	131 : $P_{2500} = (3, 11, 8, 1)$
78 : $P_{1225} = (8, 11, 3, 1)$	132 : $P_{2505} = (8, 11, 8, 1)$
79 : $P_{1299} = (2, 0, 4, 1)$	133 : $P_{2554} = (9, 14, 8, 1)$
80 : $P_{1310} = (13, 0, 4, 1)$	134 : $P_{2559} = (14, 14, 8, 1)$
81 : $P_{1330} = (1, 2, 4, 1)$	135 : $P_{2581} = (4, 0, 9, 1)$
82 : $P_{1331} = (2, 2, 4, 1)$	136 : $P_{2584} = (7, 0, 9, 1)$
83 : $P_{1367} = (6, 4, 4, 1)$	137 : $P_{2617} = (8, 2, 9, 1)$
84 : $P_{1375} = (14, 4, 4, 1)$	138 : $P_{2618} = (9, 2, 9, 1)$
85 : $P_{1391} = (14, 5, 4, 1)$	139 : $P_{2642} = (1, 4, 9, 1)$
86 : $P_{1395} = (2, 6, 4, 1)$	140 : $P_{2645} = (4, 4, 9, 1)$
87 : $P_{1413} = (4, 7, 4, 1)$	141 : $P_{2696} = (7, 7, 9, 1)$
88 : $P_{1415} = (6, 7, 4, 1)$	142 : $P_{2698} = (9, 7, 9, 1)$
89 : $P_{1449} = (8, 9, 4, 1)$	143 : $P_{2707} = (2, 8, 9, 1)$
90 : $P_{1454} = (13, 9, 4, 1)$	144 : $P_{2723} = (2, 9, 9, 1)$
91 : $P_{1509} = (4, 13, 4, 1)$	145 : $P_{2734} = (13, 9, 9, 1)$
92 : $P_{1518} = (13, 13, 4, 1)$	146 : $P_{2778} = (9, 12, 9, 1)$
93 : $P_{1525} = (4, 14, 4, 1)$	147 : $P_{2782} = (13, 12, 9, 1)$
94 : $P_{1526} = (5, 14, 4, 1)$	148 : $P_{2789} = (4, 13, 9, 1)$
95 : $P_{1562} = (9, 0, 5, 1)$	149 : $P_{2808} = (7, 14, 9, 1)$
96 : $P_{1568} = (15, 0, 5, 1)$	150 : $P_{2816} = (15, 14, 9, 1)$
97 : $P_{1630} = (13, 4, 5, 1)$	151 : $P_{2837} = (4, 0, 10, 1)$
98 : $P_{1701} = (4, 9, 5, 1)$	152 : $P_{2847} = (14, 0, 10, 1)$
99 : $P_{1706} = (9, 9, 5, 1)$	153 : $P_{2854} = (5, 1, 10, 1)$
100 : $P_{1718} = (5, 10, 5, 1)$	154 : $P_{2864} = (15, 1, 10, 1)$
101 : $P_{1728} = (15, 10, 5, 1)$	155 : $P_{2883} = (2, 3, 10, 1)$
102 : $P_{1746} = (1, 12, 5, 1)$	156 : $P_{2889} = (8, 3, 10, 1)$
103 : $P_{1754} = (9, 12, 5, 1)$	157 : $P_{2901} = (4, 4, 10, 1)$
104 : $P_{1808} = (15, 15, 5, 1)$	158 : $P_{2911} = (14, 4, 10, 1)$
105 : $P_{1834} = (9, 1, 6, 1)$	159 : $P_{2964} = (3, 8, 10, 1)$
106 : $P_{1837} = (12, 1, 6, 1)$	160 : $P_{2970} = (9, 8, 10, 1)$
107 : $P_{1879} = (6, 4, 6, 1)$	161 : $P_{2998} = (5, 10, 10, 1)$

162 : $P_{3008} = (15, 10, 10, 1)$
 163 : $P_{3061} = (4, 14, 10, 1)$
 164 : $P_{3071} = (14, 14, 10, 1)$
 165 : $P_{3091} = (2, 0, 11, 1)$
 166 : $P_{3098} = (9, 0, 11, 1)$
 167 : $P_{3108} = (3, 1, 11, 1)$
 168 : $P_{3113} = (8, 1, 11, 1)$
 169 : $P_{3123} = (2, 2, 11, 1)$
 170 : $P_{3130} = (9, 2, 11, 1)$
 171 : $P_{3173} = (4, 5, 11, 1)$
 172 : $P_{3184} = (15, 5, 11, 1)$
 173 : $P_{3235} = (2, 9, 11, 1)$
 174 : $P_{3242} = (9, 9, 11, 1)$
 175 : $P_{3268} = (3, 11, 11, 1)$
 176 : $P_{3273} = (8, 11, 11, 1)$
 177 : $P_{3334} = (5, 15, 11, 1)$
 178 : $P_{3343} = (14, 15, 11, 1)$
 179 : $P_{3365} = (4, 1, 12, 1)$
 180 : $P_{3368} = (7, 1, 12, 1)$
 181 : $P_{3389} = (12, 2, 12, 1)$
 182 : $P_{3394} = (1, 3, 12, 1)$
 183 : $P_{3407} = (14, 3, 12, 1)$
 184 : $P_{3527} = (6, 11, 12, 1)$
 185 : $P_{3534} = (13, 11, 12, 1)$
 186 : $P_{3546} = (9, 12, 12, 1)$
 187 : $P_{3551} = (14, 12, 12, 1)$
 188 : $P_{3556} = (3, 13, 12, 1)$
 189 : $P_{3623} = (6, 1, 13, 1)$
 190 : $P_{3631} = (14, 1, 13, 1)$
 191 : $P_{3730} = (1, 8, 13, 1)$
 192 : $P_{3733} = (4, 8, 13, 1)$
 193 : $P_{3758} = (13, 9, 13, 1)$

194 : $P_{3784} = (7, 11, 13, 1)$
 195 : $P_{3789} = (12, 11, 13, 1)$
 196 : $P_{3801} = (8, 12, 13, 1)$
 197 : $P_{3811} = (2, 13, 13, 1)$
 198 : $P_{3813} = (4, 13, 13, 1)$
 199 : $P_{3866} = (9, 0, 14, 1)$
 200 : $P_{3869} = (12, 0, 14, 1)$
 201 : $P_{3892} = (3, 2, 14, 1)$
 202 : $P_{3901} = (12, 2, 14, 1)$
 203 : $P_{3935} = (14, 4, 14, 1)$
 204 : $P_{3936} = (15, 4, 14, 1)$
 205 : $P_{3960} = (7, 6, 14, 1)$
 206 : $P_{3967} = (14, 6, 14, 1)$
 207 : $P_{3978} = (9, 7, 14, 1)$
 208 : $P_{4002} = (1, 9, 14, 1)$
 209 : $P_{4010} = (9, 9, 14, 1)$
 210 : $P_{4061} = (12, 12, 14, 1)$
 211 : $P_{4063} = (14, 12, 14, 1)$
 212 : $P_{4085} = (4, 14, 14, 1)$
 213 : $P_{4088} = (7, 14, 14, 1)$
 214 : $P_{4101} = (4, 15, 14, 1)$
 215 : $P_{4115} = (2, 0, 15, 1)$
 216 : $P_{4118} = (5, 0, 15, 1)$
 217 : $P_{4147} = (2, 2, 15, 1)$
 218 : $P_{4159} = (14, 2, 15, 1)$
 219 : $P_{4198} = (5, 5, 15, 1)$
 220 : $P_{4278} = (5, 10, 15, 1)$
 221 : $P_{4288} = (15, 10, 15, 1)$
 222 : $P_{4322} = (1, 13, 15, 1)$
 223 : $P_{4323} = (2, 13, 15, 1)$
 224 : $P_{4349} = (12, 14, 15, 1)$

Line Intersection Graph

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Neighbor sets in the line intersection graph:

The surface has 225 points:

The points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$	12 : $P_{200} = (5, 11, 1, 0)$	24 : $P_{340} = (2, 4, 0, 1)$
1 : $P_3 = (0, 0, 0, 1)$	13 : $P_{210} = (15, 11, 1, 0)$	25 : $P_{351} = (13, 4, 0, 1)$
2 : $P_4 = (1, 1, 1, 1)$	14 : $P_{217} = (6, 12, 1, 0)$	26 : $P_{363} = (9, 5, 0, 1)$
3 : $P_5 = (1, 1, 0, 0)$	15 : $P_{225} = (14, 12, 1, 0)$	27 : $P_{369} = (15, 5, 0, 1)$
4 : $P_{20} = (1, 0, 1, 0)$	16 : $P_{231} = (4, 13, 1, 0)$	28 : $P_{405} = (3, 8, 0, 1)$
5 : $P_{36} = (1, 1, 1, 0)$	17 : $P_{234} = (7, 13, 1, 0)$	29 : $P_{416} = (14, 8, 0, 1)$
6 : $P_{117} = (2, 6, 1, 0)$	18 : $P_{275} = (1, 0, 0, 1)$	30 : $P_{422} = (4, 9, 0, 1)$
7 : $P_{128} = (13, 6, 1, 0)$	19 : $P_{291} = (1, 1, 0, 1)$	31 : $P_{425} = (7, 9, 0, 1)$
8 : $P_{140} = (9, 7, 1, 0)$	20 : $P_{312} = (6, 2, 0, 1)$	32 : $P_{438} = (4, 10, 0, 1)$
9 : $P_{143} = (12, 7, 1, 0)$	21 : $P_{320} = (14, 2, 0, 1)$	33 : $P_{448} = (14, 10, 0, 1)$
10 : $P_{182} = (3, 10, 1, 0)$	22 : $P_{326} = (4, 3, 0, 1)$	34 : $P_{452} = (2, 11, 0, 1)$
11 : $P_{187} = (8, 10, 1, 0)$	23 : $P_{330} = (8, 3, 0, 1)$	35 : $P_{459} = (9, 11, 0, 1)$

36 : $P_{507} = (9, 14, 0, 1)$	90 : $P_{1454} = (13, 9, 4, 1)$	144 : $P_{2723} = (2, 9, 9, 1)$
37 : $P_{510} = (12, 14, 0, 1)$	91 : $P_{1509} = (4, 13, 4, 1)$	145 : $P_{2734} = (13, 9, 9, 1)$
38 : $P_{516} = (2, 15, 0, 1)$	92 : $P_{1518} = (13, 13, 4, 1)$	146 : $P_{2778} = (9, 12, 9, 1)$
39 : $P_{519} = (5, 15, 0, 1)$	93 : $P_{1525} = (4, 14, 4, 1)$	147 : $P_{2782} = (13, 12, 9, 1)$
40 : $P_{531} = (1, 0, 1, 1)$	94 : $P_{1526} = (5, 14, 4, 1)$	148 : $P_{2789} = (4, 13, 9, 1)$
41 : $P_{582} = (5, 3, 1, 1)$	95 : $P_{1562} = (9, 0, 5, 1)$	149 : $P_{2808} = (7, 14, 9, 1)$
42 : $P_{589} = (12, 3, 1, 1)$	96 : $P_{1568} = (15, 0, 5, 1)$	150 : $P_{2816} = (15, 14, 9, 1)$
43 : $P_{615} = (6, 5, 1, 1)$	97 : $P_{1630} = (13, 4, 5, 1)$	151 : $P_{2837} = (4, 0, 10, 1)$
44 : $P_{617} = (8, 5, 1, 1)$	98 : $P_{1701} = (4, 9, 5, 1)$	152 : $P_{2847} = (14, 0, 10, 1)$
45 : $P_{670} = (13, 8, 1, 1)$	99 : $P_{1706} = (9, 9, 5, 1)$	153 : $P_{2854} = (5, 1, 10, 1)$
46 : $P_{672} = (15, 8, 1, 1)$	100 : $P_{1718} = (5, 10, 5, 1)$	154 : $P_{2864} = (15, 1, 10, 1)$
47 : $P_{693} = (4, 10, 1, 1)$	101 : $P_{1728} = (15, 10, 5, 1)$	155 : $P_{2883} = (2, 3, 10, 1)$
48 : $P_{703} = (14, 10, 1, 1)$	102 : $P_{1746} = (1, 12, 5, 1)$	156 : $P_{2889} = (8, 3, 10, 1)$
49 : $P_{707} = (2, 11, 1, 1)$	103 : $P_{1754} = (9, 12, 5, 1)$	157 : $P_{2901} = (4, 4, 10, 1)$
50 : $P_{714} = (9, 11, 1, 1)$	104 : $P_{1808} = (15, 15, 5, 1)$	158 : $P_{2911} = (14, 4, 10, 1)$
51 : $P_{772} = (3, 15, 1, 1)$	105 : $P_{1834} = (9, 1, 6, 1)$	159 : $P_{2964} = (3, 8, 10, 1)$
52 : $P_{776} = (7, 15, 1, 1)$	106 : $P_{1837} = (12, 1, 6, 1)$	160 : $P_{2970} = (9, 8, 10, 1)$
53 : $P_{791} = (6, 0, 2, 1)$	107 : $P_{1879} = (6, 4, 6, 1)$	161 : $P_{2998} = (5, 10, 10, 1)$
54 : $P_{799} = (14, 0, 2, 1)$	108 : $P_{1890} = (1, 5, 6, 1)$	162 : $P_{3008} = (15, 10, 10, 1)$
55 : $P_{826} = (9, 2, 2, 1)$	109 : $P_{1891} = (2, 5, 6, 1)$	163 : $P_{3061} = (4, 14, 10, 1)$
56 : $P_{829} = (12, 2, 2, 1)$	110 : $P_{1907} = (2, 6, 6, 1)$	164 : $P_{3071} = (14, 14, 10, 1)$
57 : $P_{842} = (9, 3, 2, 1)$	111 : $P_{1919} = (14, 6, 6, 1)$	165 : $P_{3091} = (2, 0, 11, 1)$
58 : $P_{854} = (5, 4, 2, 1)$	112 : $P_{1926} = (5, 7, 6, 1)$	166 : $P_{3098} = (9, 0, 11, 1)$
59 : $P_{855} = (6, 4, 2, 1)$	113 : $P_{1976} = (7, 10, 6, 1)$	167 : $P_{3108} = (3, 1, 11, 1)$
60 : $P_{883} = (2, 6, 2, 1)$	114 : $P_{1982} = (13, 10, 6, 1)$	168 : $P_{3113} = (8, 1, 11, 1)$
61 : $P_{887} = (6, 6, 2, 1)$	115 : $P_{2083} = (2, 1, 7, 1)$	169 : $P_{3123} = (2, 2, 11, 1)$
62 : $P_{931} = (2, 9, 2, 1)$	116 : $P_{2094} = (13, 1, 7, 1)$	170 : $P_{3130} = (9, 2, 11, 1)$
63 : $P_{932} = (3, 9, 2, 1)$	117 : $P_{2176} = (15, 6, 7, 1)$	171 : $P_{3173} = (4, 5, 11, 1)$
64 : $P_{991} = (14, 12, 2, 1)$	118 : $P_{2181} = (4, 7, 7, 1)$	172 : $P_{3184} = (15, 5, 11, 1)$
65 : $P_{995} = (2, 13, 2, 1)$	119 : $P_{2186} = (9, 7, 7, 1)$	173 : $P_{3235} = (2, 9, 11, 1)$
66 : $P_{1005} = (12, 13, 2, 1)$	120 : $P_{2231} = (6, 10, 7, 1)$	174 : $P_{3242} = (9, 9, 11, 1)$
67 : $P_{1010} = (1, 14, 2, 1)$	121 : $P_{2237} = (12, 10, 7, 1)$	175 : $P_{3268} = (3, 11, 11, 1)$
68 : $P_{1023} = (14, 14, 2, 1)$	122 : $P_{2296} = (7, 14, 7, 1)$	176 : $P_{3273} = (8, 11, 11, 1)$
69 : $P_{1045} = (4, 0, 3, 1)$	123 : $P_{2306} = (1, 15, 7, 1)$	177 : $P_{3334} = (5, 15, 11, 1)$
70 : $P_{1049} = (8, 0, 3, 1)$	124 : $P_{2314} = (9, 15, 7, 1)$	178 : $P_{3343} = (14, 15, 11, 1)$
71 : $P_{1079} = (6, 2, 3, 1)$	125 : $P_{2324} = (3, 0, 8, 1)$	179 : $P_{3365} = (4, 1, 12, 1)$
72 : $P_{1107} = (2, 4, 3, 1)$	126 : $P_{2335} = (14, 0, 8, 1)$	180 : $P_{3368} = (7, 1, 12, 1)$
73 : $P_{1109} = (4, 4, 3, 1)$	127 : $P_{2372} = (3, 3, 8, 1)$	181 : $P_{3389} = (12, 2, 12, 1)$
74 : $P_{1154} = (1, 7, 3, 1)$	128 : $P_{2418} = (1, 6, 8, 1)$	182 : $P_{3394} = (1, 3, 12, 1)$
75 : $P_{1157} = (4, 7, 3, 1)$	129 : $P_{2431} = (14, 6, 8, 1)$	183 : $P_{3407} = (14, 3, 12, 1)$
76 : $P_{1177} = (8, 8, 3, 1)$	130 : $P_{2472} = (7, 9, 8, 1)$	184 : $P_{3527} = (6, 11, 12, 1)$
77 : $P_{1220} = (3, 11, 3, 1)$	131 : $P_{2500} = (3, 11, 8, 1)$	185 : $P_{3534} = (13, 11, 12, 1)$
78 : $P_{1225} = (8, 11, 3, 1)$	132 : $P_{2505} = (8, 11, 8, 1)$	186 : $P_{3546} = (9, 12, 12, 1)$
79 : $P_{1299} = (2, 0, 4, 1)$	133 : $P_{2554} = (9, 14, 8, 1)$	187 : $P_{3551} = (14, 12, 12, 1)$
80 : $P_{1310} = (13, 0, 4, 1)$	134 : $P_{2559} = (14, 14, 8, 1)$	188 : $P_{3556} = (3, 13, 12, 1)$
81 : $P_{1330} = (1, 2, 4, 1)$	135 : $P_{2581} = (4, 0, 9, 1)$	189 : $P_{3623} = (6, 1, 13, 1)$
82 : $P_{1331} = (2, 2, 4, 1)$	136 : $P_{2584} = (7, 0, 9, 1)$	190 : $P_{3631} = (14, 1, 13, 1)$
83 : $P_{1367} = (6, 4, 4, 1)$	137 : $P_{2617} = (8, 2, 9, 1)$	191 : $P_{3730} = (1, 8, 13, 1)$
84 : $P_{1375} = (14, 4, 4, 1)$	138 : $P_{2618} = (9, 2, 9, 1)$	192 : $P_{3733} = (4, 8, 13, 1)$
85 : $P_{1391} = (14, 5, 4, 1)$	139 : $P_{2642} = (1, 4, 9, 1)$	193 : $P_{3758} = (13, 9, 13, 1)$
86 : $P_{1395} = (2, 6, 4, 1)$	140 : $P_{2645} = (4, 4, 9, 1)$	194 : $P_{3784} = (7, 11, 13, 1)$
87 : $P_{1413} = (4, 7, 4, 1)$	141 : $P_{2696} = (7, 7, 9, 1)$	195 : $P_{3789} = (12, 11, 13, 1)$
88 : $P_{1415} = (6, 7, 4, 1)$	142 : $P_{2698} = (9, 7, 9, 1)$	196 : $P_{3801} = (8, 12, 13, 1)$
89 : $P_{1449} = (8, 9, 4, 1)$	143 : $P_{2707} = (2, 8, 9, 1)$	197 : $P_{3811} = (2, 13, 13, 1)$

198 : $P_{3813} = (4, 13, 13, 1)$	208 : $P_{4002} = (1, 9, 14, 1)$	218 : $P_{4159} = (14, 2, 15, 1)$
199 : $P_{3866} = (9, 0, 14, 1)$	209 : $P_{4010} = (9, 9, 14, 1)$	219 : $P_{4198} = (5, 5, 15, 1)$
200 : $P_{3869} = (12, 0, 14, 1)$	210 : $P_{4061} = (12, 12, 14, 1)$	220 : $P_{4278} = (5, 10, 15, 1)$
201 : $P_{3892} = (3, 2, 14, 1)$	211 : $P_{4063} = (14, 12, 14, 1)$	221 : $P_{4288} = (15, 10, 15, 1)$
202 : $P_{3901} = (12, 2, 14, 1)$	212 : $P_{4085} = (4, 14, 14, 1)$	222 : $P_{4322} = (1, 13, 15, 1)$
203 : $P_{3935} = (14, 4, 14, 1)$	213 : $P_{4088} = (7, 14, 14, 1)$	223 : $P_{4323} = (2, 13, 15, 1)$
204 : $P_{3936} = (15, 4, 14, 1)$	214 : $P_{4101} = (4, 15, 14, 1)$	224 : $P_{4349} = (12, 14, 15, 1)$
205 : $P_{3960} = (7, 6, 14, 1)$	215 : $P_{4115} = (2, 0, 15, 1)$	
206 : $P_{3967} = (14, 6, 14, 1)$	216 : $P_{4118} = (5, 0, 15, 1)$	
207 : $P_{3978} = (9, 7, 14, 1)$	217 : $P_{4147} = (2, 2, 15, 1)$	