

# Rank-74263 over GF(16)

January 15, 2021

## The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(16) is 286396949

## 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 : $P_{646} = (5, 7, 1, 1)$
1 : $P_1 = (0, 1, 0, 0)$	28 : $P_{651} = (10, 7, 1, 1)$
2 : $P_3 = (0, 0, 0, 1)$	29 : $P_{694} = (5, 10, 1, 1)$
3 : $P_{45} = (10, 1, 1, 0)$	30 : $P_{704} = (15, 10, 1, 1)$
4 : $P_{46} = (11, 1, 1, 0)$	31 : $P_{708} = (3, 11, 1, 1)$
5 : $P_{65} = (14, 2, 1, 0)$	32 : $P_{713} = (8, 11, 1, 1)$
6 : $P_{66} = (15, 2, 1, 0)$	33 : $P_{729} = (8, 12, 1, 1)$
7 : $P_{85} = (2, 4, 1, 0)$	34 : $P_{732} = (11, 12, 1, 1)$
8 : $P_{86} = (3, 4, 1, 0)$	35 : $P_{740} = (3, 13, 1, 1)$
9 : $P_{167} = (4, 9, 1, 0)$	36 : $P_{748} = (11, 13, 1, 1)$
10 : $P_{168} = (5, 9, 1, 0)$	37 : $P_{793} = (8, 0, 2, 1)$
11 : $P_{185} = (6, 10, 1, 0)$	38 : $P_{814} = (13, 1, 2, 1)$
12 : $P_{186} = (7, 10, 1, 0)$	39 : $P_{815} = (14, 1, 2, 1)$
13 : $P_{207} = (12, 11, 1, 0)$	40 : $P_{865} = (0, 5, 2, 1)$
14 : $P_{208} = (13, 11, 1, 0)$	41 : $P_{878} = (13, 5, 2, 1)$
15 : $P_{251} = (8, 14, 1, 0)$	42 : $P_{889} = (8, 6, 2, 1)$
16 : $P_{252} = (9, 14, 1, 0)$	43 : $P_{895} = (14, 6, 2, 1)$
17 : $P_{300} = (10, 1, 0, 1)$	44 : $P_{963} = (2, 11, 2, 1)$
18 : $P_{301} = (11, 1, 0, 1)$	45 : $P_{971} = (10, 11, 2, 1)$
19 : $P_{435} = (1, 10, 0, 1)$	46 : $P_{980} = (3, 12, 2, 1)$
20 : $P_{444} = (10, 10, 0, 1)$	47 : $P_{994} = (1, 13, 2, 1)$
21 : $P_{451} = (1, 11, 0, 1)$	48 : $P_{1003} = (10, 13, 2, 1)$
22 : $P_{461} = (11, 11, 0, 1)$	49 : $P_{1010} = (1, 14, 2, 1)$
23 : $P_{531} = (1, 0, 1, 1)$	50 : $P_{1013} = (4, 14, 2, 1)$
24 : $P_{546} = (0, 1, 1, 1)$	51 : $P_{1028} = (3, 15, 2, 1)$
25 : $P_{635} = (10, 6, 1, 1)$	52 : $P_{1029} = (4, 15, 2, 1)$
26 : $P_{640} = (15, 6, 1, 1)$	53 : $P_{1056} = (15, 0, 3, 1)$

54 : $P_{1078} = (5, 2, 3, 1)$	108 : $P_{2055} = (6, 15, 6, 1)$
55 : $P_{1083} = (10, 2, 3, 1)$	109 : $P_{2080} = (15, 0, 7, 1)$
56 : $P_{1126} = (5, 5, 3, 1)$	110 : $P_{2133} = (4, 4, 7, 1)$
57 : $P_{1130} = (9, 5, 3, 1)$	111 : $P_{2134} = (5, 4, 7, 1)$
58 : $P_{1156} = (3, 7, 3, 1)$	112 : $P_{2152} = (7, 5, 7, 1)$
59 : $P_{1167} = (14, 7, 3, 1)$	113 : $P_{2160} = (15, 5, 7, 1)$
60 : $P_{1169} = (0, 8, 3, 1)$	114 : $P_{2193} = (0, 8, 7, 1)$
61 : $P_{1192} = (7, 9, 3, 1)$	115 : $P_{2197} = (4, 8, 7, 1)$
62 : $P_{1194} = (9, 9, 3, 1)$	116 : $P_{2294} = (5, 14, 7, 1)$
63 : $P_{1223} = (6, 11, 3, 1)$	117 : $P_{2326} = (5, 0, 8, 1)$
64 : $P_{1232} = (15, 11, 3, 1)$	118 : $P_{2355} = (2, 2, 8, 1)$
65 : $P_{1239} = (6, 12, 3, 1)$	119 : $P_{2359} = (6, 2, 8, 1)$
66 : $P_{1240} = (7, 12, 3, 1)$	120 : $P_{2369} = (0, 3, 8, 1)$
67 : $P_{1275} = (10, 14, 3, 1)$	121 : $P_{2389} = (4, 4, 8, 1)$
68 : $P_{1279} = (14, 14, 3, 1)$	122 : $P_{2395} = (10, 4, 8, 1)$
69 : $P_{1312} = (15, 0, 4, 1)$	123 : $P_{2421} = (4, 6, 8, 1)$
70 : $P_{1315} = (2, 1, 4, 1)$	124 : $P_{2425} = (8, 6, 8, 1)$
71 : $P_{1320} = (7, 1, 4, 1)$	125 : $P_{2475} = (10, 9, 8, 1)$
72 : $P_{1330} = (1, 2, 4, 1)$	126 : $P_{2480} = (15, 9, 8, 1)$
73 : $P_{1338} = (9, 2, 4, 1)$	127 : $P_{2502} = (5, 11, 8, 1)$
74 : $P_{1350} = (5, 3, 4, 1)$	128 : $P_{2504} = (7, 11, 8, 1)$
75 : $P_{1354} = (9, 3, 4, 1)$	129 : $P_{2535} = (6, 13, 8, 1)$
76 : $P_{1398} = (5, 6, 4, 1)$	130 : $P_{2536} = (7, 13, 8, 1)$
77 : $P_{1410} = (1, 7, 4, 1)$	131 : $P_{2563} = (2, 15, 8, 1)$
78 : $P_{1420} = (11, 7, 4, 1)$	132 : $P_{2576} = (15, 15, 8, 1)$
79 : $P_{1425} = (0, 8, 4, 1)$	133 : $P_{2580} = (3, 0, 9, 1)$
80 : $P_{1432} = (7, 8, 4, 1)$	134 : $P_{2597} = (4, 1, 9, 1)$
81 : $P_{1461} = (4, 10, 4, 1)$	135 : $P_{2605} = (12, 1, 9, 1)$
82 : $P_{1468} = (11, 10, 4, 1)$	136 : $P_{2642} = (1, 4, 9, 1)$
83 : $P_{1507} = (2, 13, 4, 1)$	137 : $P_{2655} = (14, 4, 9, 1)$
84 : $P_{1520} = (15, 13, 4, 1)$	138 : $P_{2665} = (8, 5, 9, 1)$
85 : $P_{1556} = (3, 0, 5, 1)$	139 : $P_{2671} = (14, 5, 9, 1)$
86 : $P_{1587} = (2, 2, 5, 1)$	140 : $P_{2692} = (3, 7, 9, 1)$
87 : $P_{1596} = (11, 2, 5, 1)$	141 : $P_{2693} = (4, 7, 9, 1)$
88 : $P_{1625} = (8, 4, 5, 1)$	142 : $P_{2762} = (9, 11, 9, 1)$
89 : $P_{1628} = (11, 4, 5, 1)$	143 : $P_{2763} = (10, 11, 9, 1)$
90 : $P_{1661} = (12, 6, 5, 1)$	144 : $P_{2770} = (1, 12, 9, 1)$
91 : $P_{1662} = (13, 6, 5, 1)$	145 : $P_{2779} = (10, 12, 9, 1)$
92 : $P_{1689} = (8, 8, 5, 1)$	146 : $P_{2793} = (8, 13, 9, 1)$
93 : $P_{1695} = (14, 8, 5, 1)$	147 : $P_{2817} = (0, 15, 9, 1)$
94 : $P_{1716} = (3, 10, 5, 1)$	148 : $P_{2829} = (12, 15, 9, 1)$
95 : $P_{1726} = (13, 10, 5, 1)$	149 : $P_{2834} = (1, 0, 10, 1)$
96 : $P_{1747} = (2, 12, 5, 1)$	150 : $P_{2849} = (0, 1, 10, 1)$
97 : $P_{1750} = (5, 12, 5, 1)$	151 : $P_{2860} = (11, 1, 10, 1)$
98 : $P_{1789} = (12, 14, 5, 1)$	152 : $P_{2916} = (3, 5, 10, 1)$
99 : $P_{1791} = (14, 14, 5, 1)$	153 : $P_{2919} = (6, 5, 10, 1)$
100 : $P_{1793} = (0, 15, 5, 1)$	154 : $P_{2935} = (6, 6, 10, 1)$
101 : $P_{1814} = (5, 0, 6, 1)$	155 : $P_{2937} = (8, 6, 10, 1)$
102 : $P_{1857} = (0, 3, 6, 1)$	156 : $P_{2948} = (3, 7, 10, 1)$
103 : $P_{1871} = (14, 3, 6, 1)$	157 : $P_{2952} = (7, 7, 10, 1)$
104 : $P_{1888} = (15, 4, 6, 1)$	158 : $P_{3003} = (10, 10, 10, 1)$
105 : $P_{2047} = (14, 14, 6, 1)$	159 : $P_{3004} = (11, 10, 10, 1)$
106 : $P_{2048} = (15, 14, 6, 1)$	160 : $P_{3010} = (1, 11, 10, 1)$
107 : $P_{2054} = (5, 15, 6, 1)$	161 : $P_{3080} = (7, 15, 10, 1)$

162 : $P_{3081} = (8, 15, 10, 1)$	194 : $P_{3879} = (6, 1, 14, 1)$
163 : $P_{3090} = (1, 0, 11, 1)$	195 : $P_{3882} = (9, 1, 14, 1)$
164 : $P_{3105} = (0, 1, 11, 1)$	196 : $P_{3905} = (0, 3, 14, 1)$
165 : $P_{3115} = (10, 1, 11, 1)$	197 : $P_{3911} = (6, 3, 14, 1)$
166 : $P_{3149} = (12, 3, 11, 1)$	198 : $P_{3954} = (1, 6, 14, 1)$
167 : $P_{3152} = (15, 3, 11, 1)$	199 : $P_{3964} = (11, 6, 14, 1)$
168 : $P_{3222} = (5, 8, 11, 1)$	200 : $P_{3984} = (15, 7, 14, 1)$
169 : $P_{3230} = (13, 8, 11, 1)$	201 : $P_{3987} = (2, 8, 14, 1)$
170 : $P_{3250} = (1, 10, 11, 1)$	202 : $P_{4000} = (15, 8, 14, 1)$
171 : $P_{3275} = (10, 11, 11, 1)$	203 : $P_{4002} = (1, 9, 14, 1)$
172 : $P_{3276} = (11, 11, 11, 1)$	204 : $P_{4003} = (2, 9, 14, 1)$
173 : $P_{3286} = (5, 12, 11, 1)$	205 : $P_{4028} = (11, 10, 14, 1)$
174 : $P_{3293} = (12, 12, 11, 1)$	206 : $P_{4031} = (14, 10, 14, 1)$
175 : $P_{3310} = (13, 13, 11, 1)$	207 : $P_{4054} = (5, 12, 14, 1)$
176 : $P_{3312} = (15, 13, 11, 1)$	208 : $P_{4058} = (9, 12, 14, 1)$
177 : $P_{3348} = (3, 0, 12, 1)$	209 : $P_{4121} = (8, 0, 15, 1)$
178 : $P_{3385} = (8, 2, 12, 1)$	210 : $P_{4164} = (3, 3, 15, 1)$
179 : $P_{3476} = (3, 8, 12, 1)$	211 : $P_{4165} = (4, 3, 15, 1)$
180 : $P_{3485} = (12, 8, 12, 1)$	212 : $P_{4181} = (4, 4, 15, 1)$
181 : $P_{3497} = (8, 9, 12, 1)$	213 : $P_{4190} = (13, 4, 15, 1)$
182 : $P_{3498} = (9, 9, 12, 1)$	214 : $P_{4193} = (0, 5, 15, 1)$
183 : $P_{3585} = (0, 15, 12, 1)$	215 : $P_{4237} = (12, 7, 15, 1)$
184 : $P_{3594} = (9, 15, 12, 1)$	216 : $P_{4238} = (13, 7, 15, 1)$
185 : $P_{3609} = (8, 0, 13, 1)$	217 : $P_{4266} = (9, 9, 15, 1)$
186 : $P_{3635} = (2, 2, 13, 1)$	218 : $P_{4268} = (11, 9, 15, 1)$
187 : $P_{3636} = (3, 2, 13, 1)$	219 : $P_{4281} = (8, 10, 15, 1)$
188 : $P_{3657} = (8, 3, 13, 1)$	220 : $P_{4285} = (12, 10, 15, 1)$
189 : $P_{3662} = (13, 3, 13, 1)$	221 : $P_{4330} = (9, 13, 15, 1)$
190 : $P_{3681} = (0, 5, 13, 1)$	222 : $P_{4336} = (15, 13, 15, 1)$
191 : $P_{3683} = (2, 5, 13, 1)$	223 : $P_{4340} = (3, 14, 15, 1)$
192 : $P_{3748} = (3, 9, 13, 1)$	224 : $P_{4348} = (11, 14, 15, 1)$
193 : $P_{3862} = (5, 0, 14, 1)$	

## 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 : $P_{186} = (7, 10, 1, 0)$	24 : $P_{546} = (0, 1, 1, 1)$
1 : $P_1 = (0, 1, 0, 0)$	13 : $P_{207} = (12, 11, 1, 0)$	25 : $P_{635} = (10, 6, 1, 1)$
2 : $P_3 = (0, 0, 0, 1)$	14 : $P_{208} = (13, 11, 1, 0)$	26 : $P_{640} = (15, 6, 1, 1)$
3 : $P_{45} = (10, 1, 1, 0)$	15 : $P_{251} = (8, 14, 1, 0)$	27 : $P_{646} = (5, 7, 1, 1)$
4 : $P_{46} = (11, 1, 1, 0)$	16 : $P_{252} = (9, 14, 1, 0)$	28 : $P_{651} = (10, 7, 1, 1)$
5 : $P_{65} = (14, 2, 1, 0)$	17 : $P_{300} = (10, 1, 0, 1)$	29 : $P_{694} = (5, 10, 1, 1)$
6 : $P_{66} = (15, 2, 1, 0)$	18 : $P_{301} = (11, 1, 0, 1)$	30 : $P_{704} = (15, 10, 1, 1)$
7 : $P_{85} = (2, 4, 1, 0)$	19 : $P_{435} = (1, 10, 0, 1)$	31 : $P_{708} = (3, 11, 1, 1)$
8 : $P_{86} = (3, 4, 1, 0)$	20 : $P_{444} = (10, 10, 0, 1)$	32 : $P_{713} = (8, 11, 1, 1)$
9 : $P_{167} = (4, 9, 1, 0)$	21 : $P_{451} = (1, 11, 0, 1)$	33 : $P_{729} = (8, 12, 1, 1)$
10 : $P_{168} = (5, 9, 1, 0)$	22 : $P_{461} = (11, 11, 0, 1)$	34 : $P_{732} = (11, 12, 1, 1)$
11 : $P_{185} = (6, 10, 1, 0)$	23 : $P_{531} = (1, 0, 1, 1)$	35 : $P_{740} = (3, 13, 1, 1)$

36 : $P_{748} = (11, 13, 1, 1)$	90 : $P_{1661} = (12, 6, 5, 1)$	144 : $P_{2770} = (1, 12, 9, 1)$
37 : $P_{793} = (8, 0, 2, 1)$	91 : $P_{1662} = (13, 6, 5, 1)$	145 : $P_{2779} = (10, 12, 9, 1)$
38 : $P_{814} = (13, 1, 2, 1)$	92 : $P_{1689} = (8, 8, 5, 1)$	146 : $P_{2793} = (8, 13, 9, 1)$
39 : $P_{815} = (14, 1, 2, 1)$	93 : $P_{1695} = (14, 8, 5, 1)$	147 : $P_{2817} = (0, 15, 9, 1)$
40 : $P_{865} = (0, 5, 2, 1)$	94 : $P_{1716} = (3, 10, 5, 1)$	148 : $P_{2829} = (12, 15, 9, 1)$
41 : $P_{878} = (13, 5, 2, 1)$	95 : $P_{1726} = (13, 10, 5, 1)$	149 : $P_{2834} = (1, 0, 10, 1)$
42 : $P_{889} = (8, 6, 2, 1)$	96 : $P_{1747} = (2, 12, 5, 1)$	150 : $P_{2849} = (0, 1, 10, 1)$
43 : $P_{895} = (14, 6, 2, 1)$	97 : $P_{1750} = (5, 12, 5, 1)$	151 : $P_{2860} = (11, 1, 10, 1)$
44 : $P_{963} = (2, 11, 2, 1)$	98 : $P_{1789} = (12, 14, 5, 1)$	152 : $P_{2916} = (3, 5, 10, 1)$
45 : $P_{971} = (10, 11, 2, 1)$	99 : $P_{1791} = (14, 14, 5, 1)$	153 : $P_{2919} = (6, 5, 10, 1)$
46 : $P_{980} = (3, 12, 2, 1)$	100 : $P_{1793} = (0, 15, 5, 1)$	154 : $P_{2935} = (6, 6, 10, 1)$
47 : $P_{994} = (1, 13, 2, 1)$	101 : $P_{1814} = (5, 0, 6, 1)$	155 : $P_{2937} = (8, 6, 10, 1)$
48 : $P_{1003} = (10, 13, 2, 1)$	102 : $P_{1857} = (0, 3, 6, 1)$	156 : $P_{2948} = (3, 7, 10, 1)$
49 : $P_{1010} = (1, 14, 2, 1)$	103 : $P_{1871} = (14, 3, 6, 1)$	157 : $P_{2952} = (7, 7, 10, 1)$
50 : $P_{1013} = (4, 14, 2, 1)$	104 : $P_{1888} = (15, 4, 6, 1)$	158 : $P_{3003} = (10, 10, 10, 1)$
51 : $P_{1028} = (3, 15, 2, 1)$	105 : $P_{2047} = (14, 14, 6, 1)$	159 : $P_{3004} = (11, 10, 10, 1)$
52 : $P_{1029} = (4, 15, 2, 1)$	106 : $P_{2048} = (15, 14, 6, 1)$	160 : $P_{3010} = (1, 11, 10, 1)$
53 : $P_{1056} = (15, 0, 3, 1)$	107 : $P_{2054} = (5, 15, 6, 1)$	161 : $P_{3080} = (7, 15, 10, 1)$
54 : $P_{1078} = (5, 2, 3, 1)$	108 : $P_{2055} = (6, 15, 6, 1)$	162 : $P_{3081} = (8, 15, 10, 1)$
55 : $P_{1083} = (10, 2, 3, 1)$	109 : $P_{2080} = (15, 0, 7, 1)$	163 : $P_{3090} = (1, 0, 11, 1)$
56 : $P_{1126} = (5, 5, 3, 1)$	110 : $P_{2133} = (4, 4, 7, 1)$	164 : $P_{3105} = (0, 1, 11, 1)$
57 : $P_{1130} = (9, 5, 3, 1)$	111 : $P_{2134} = (5, 4, 7, 1)$	165 : $P_{3115} = (10, 1, 11, 1)$
58 : $P_{1156} = (3, 7, 3, 1)$	112 : $P_{2152} = (7, 5, 7, 1)$	166 : $P_{3149} = (12, 3, 11, 1)$
59 : $P_{1167} = (14, 7, 3, 1)$	113 : $P_{2160} = (15, 5, 7, 1)$	167 : $P_{3152} = (15, 3, 11, 1)$
60 : $P_{1169} = (0, 8, 3, 1)$	114 : $P_{2193} = (0, 8, 7, 1)$	168 : $P_{3222} = (5, 8, 11, 1)$
61 : $P_{1192} = (7, 9, 3, 1)$	115 : $P_{2197} = (4, 8, 7, 1)$	169 : $P_{3230} = (13, 8, 11, 1)$
62 : $P_{1194} = (9, 9, 3, 1)$	116 : $P_{2294} = (5, 14, 7, 1)$	170 : $P_{3250} = (1, 10, 11, 1)$
63 : $P_{1223} = (6, 11, 3, 1)$	117 : $P_{2326} = (5, 0, 8, 1)$	171 : $P_{3275} = (10, 11, 11, 1)$
64 : $P_{1232} = (15, 11, 3, 1)$	118 : $P_{2355} = (2, 2, 8, 1)$	172 : $P_{3276} = (11, 11, 11, 1)$
65 : $P_{1239} = (6, 12, 3, 1)$	119 : $P_{2359} = (6, 2, 8, 1)$	173 : $P_{3286} = (5, 12, 11, 1)$
66 : $P_{1240} = (7, 12, 3, 1)$	120 : $P_{2369} = (0, 3, 8, 1)$	174 : $P_{3293} = (12, 12, 11, 1)$
67 : $P_{1275} = (10, 14, 3, 1)$	121 : $P_{2389} = (4, 4, 8, 1)$	175 : $P_{3310} = (13, 13, 11, 1)$
68 : $P_{1279} = (14, 14, 3, 1)$	122 : $P_{2395} = (10, 4, 8, 1)$	176 : $P_{3312} = (15, 13, 11, 1)$
69 : $P_{1312} = (15, 0, 4, 1)$	123 : $P_{2421} = (4, 6, 8, 1)$	177 : $P_{3348} = (3, 0, 12, 1)$
70 : $P_{1315} = (2, 1, 4, 1)$	124 : $P_{2425} = (8, 6, 8, 1)$	178 : $P_{3385} = (8, 2, 12, 1)$
71 : $P_{1320} = (7, 1, 4, 1)$	125 : $P_{2475} = (10, 9, 8, 1)$	179 : $P_{3476} = (3, 8, 12, 1)$
72 : $P_{1330} = (1, 2, 4, 1)$	126 : $P_{2480} = (15, 9, 8, 1)$	180 : $P_{3485} = (12, 8, 12, 1)$
73 : $P_{1338} = (9, 2, 4, 1)$	127 : $P_{2502} = (5, 11, 8, 1)$	181 : $P_{3497} = (8, 9, 12, 1)$
74 : $P_{1350} = (5, 3, 4, 1)$	128 : $P_{2504} = (7, 11, 8, 1)$	182 : $P_{3498} = (9, 9, 12, 1)$
75 : $P_{1354} = (9, 3, 4, 1)$	129 : $P_{2535} = (6, 13, 8, 1)$	183 : $P_{3585} = (0, 15, 12, 1)$
76 : $P_{1398} = (5, 6, 4, 1)$	130 : $P_{2536} = (7, 13, 8, 1)$	184 : $P_{3594} = (9, 15, 12, 1)$
77 : $P_{1410} = (1, 7, 4, 1)$	131 : $P_{2563} = (2, 15, 8, 1)$	185 : $P_{3609} = (8, 0, 13, 1)$
78 : $P_{1420} = (11, 7, 4, 1)$	132 : $P_{2576} = (15, 15, 8, 1)$	186 : $P_{3635} = (2, 2, 13, 1)$
79 : $P_{1425} = (0, 8, 4, 1)$	133 : $P_{2580} = (3, 0, 9, 1)$	187 : $P_{3636} = (3, 2, 13, 1)$
80 : $P_{1432} = (7, 8, 4, 1)$	134 : $P_{2597} = (4, 1, 9, 1)$	188 : $P_{3657} = (8, 3, 13, 1)$
81 : $P_{1461} = (4, 10, 4, 1)$	135 : $P_{2605} = (12, 1, 9, 1)$	189 : $P_{3662} = (13, 3, 13, 1)$
82 : $P_{1468} = (11, 10, 4, 1)$	136 : $P_{2642} = (1, 4, 9, 1)$	190 : $P_{3681} = (0, 5, 13, 1)$
83 : $P_{1507} = (2, 13, 4, 1)$	137 : $P_{2655} = (14, 4, 9, 1)$	191 : $P_{3683} = (2, 5, 13, 1)$
84 : $P_{1520} = (15, 13, 4, 1)$	138 : $P_{2665} = (8, 5, 9, 1)$	192 : $P_{3748} = (3, 9, 13, 1)$
85 : $P_{1556} = (3, 0, 5, 1)$	139 : $P_{2671} = (14, 5, 9, 1)$	193 : $P_{3862} = (5, 0, 14, 1)$
86 : $P_{1587} = (2, 2, 5, 1)$	140 : $P_{2692} = (3, 7, 9, 1)$	194 : $P_{3879} = (6, 1, 14, 1)$
87 : $P_{1596} = (11, 2, 5, 1)$	141 : $P_{2693} = (4, 7, 9, 1)$	195 : $P_{3882} = (9, 1, 14, 1)$
88 : $P_{1625} = (8, 4, 5, 1)$	142 : $P_{2762} = (9, 11, 9, 1)$	196 : $P_{3905} = (0, 3, 14, 1)$
89 : $P_{1628} = (11, 4, 5, 1)$	143 : $P_{2763} = (10, 11, 9, 1)$	197 : $P_{3911} = (6, 3, 14, 1)$

198 : $P_{3954} = (1, 6, 14, 1)$	208 : $P_{4058} = (9, 12, 14, 1)$	218 : $P_{4268} = (11, 9, 15, 1)$
199 : $P_{3964} = (11, 6, 14, 1)$	209 : $P_{4121} = (8, 0, 15, 1)$	219 : $P_{4281} = (8, 10, 15, 1)$
200 : $P_{3984} = (15, 7, 14, 1)$	210 : $P_{4164} = (3, 3, 15, 1)$	220 : $P_{4285} = (12, 10, 15, 1)$
201 : $P_{3987} = (2, 8, 14, 1)$	211 : $P_{4165} = (4, 3, 15, 1)$	221 : $P_{4330} = (9, 13, 15, 1)$
202 : $P_{4000} = (15, 8, 14, 1)$	212 : $P_{4181} = (4, 4, 15, 1)$	222 : $P_{4336} = (15, 13, 15, 1)$
203 : $P_{4002} = (1, 9, 14, 1)$	213 : $P_{4190} = (13, 4, 15, 1)$	223 : $P_{4340} = (3, 14, 15, 1)$
204 : $P_{4003} = (2, 9, 14, 1)$	214 : $P_{4193} = (0, 5, 15, 1)$	224 : $P_{4348} = (11, 14, 15, 1)$
205 : $P_{4028} = (11, 10, 14, 1)$	215 : $P_{4237} = (12, 7, 15, 1)$	
206 : $P_{4031} = (14, 10, 14, 1)$	216 : $P_{4238} = (13, 7, 15, 1)$	
207 : $P_{4054} = (5, 12, 14, 1)$	217 : $P_{4266} = (9, 9, 15, 1)$	