Rank-65851 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

$$X_3^3 + X_0^2X_1 + X_0^2X_2 + X_1^2X_2 + X_0X_1X_2 = 0$$

(0, 0, 0, 1, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(16) is 287449365

General information

Number of lines	0
Number of points	241
Number of singular points	1
Number of Eckardt points	0
Number of double points	0
Number of single points	0
Number of points off lines	241
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0^{241}

Singular Points

The surface has 1 singular points:

$0 : \ P_2 = \mathbf{P}(0,0,1,0) = \mathbf{P}(0,0,1,0)$

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 241 points not on any line:
The points on the surface but not on lines are:

$0: P_0 = (1,0,0,0)$
$1: P_1 = (0,1,0,0)$
$2: P_2 = (0,0,1,0)$
$3: P_{36} = (1,1,1,0)$
$4: P_{120} = (5,6,1,0)$
$5: P_{125} = (10,6,1,0)$
$6: P_{141} = (10,7,1,0)$
$7: P_{146} = (15,7,1,0)$
$8: P_{182} = (3,10,1,0)$
$9: P_{187} = (8,10,1,0)$
$10: P_{200} = (5,11,1,0)$
$11: P_{210} = (15,11,1,0)$
$12: P_{214} = (3,12,1,0)$
$13: P_{222} = (11,12,1,0)$
$14: P_{235} = (8,13,1,0)$
$15: P_{238} = (11,13,1,0)$
$16: P_{291} = (1,1,0,1)$
$17: P_{313} = (7,2,0,1)$
$18: P_{327} = (5,3,0,1)$
$19: P_{350} = (12,4,0,1)$
$20: P_{362} = (8,5,0,1)$
$21: P_{372} = (2,6,0,1)$
$22: P_{395} = (9,7,0,1)$
$23: P_{417} = (15,8,0,1)$
$24: P_{424} = (6,9,0,1)$
$25: P_{444} = (10,10,0,1)$
$26: P_{461} = (11,11,0,1)$
$27: P_{480} = (14,12,0,1)$
$28: P_{486} = (4,13,0,1)$
$29: P_{511} = (13,14,0,1)$
$30: P_{517} = (3,15,0,1)$
$31: P_{531} = (1,0,1,1)$
$32: P_{546} = (0,1,1,1)$
$33: P_{629} = (4,6,1,1)$
$34: P_{636} = (11,6,1,1)$
$35: P_{652} = (11,7,1,1)$
$36: P_{655} = (14,7,1,1)$
$37: P_{691} = (2,10,1,1)$
$38: P_{698} = (9,10,1,1)$
$39: P_{709} = (4,11,1,1)$
$40: P_{719} = (14,11,1,1)$
$41: P_{723} = (2,12,1,1)$
$42: P_{731} = (10,12,1,1)$
$43: P_{746} = (9,13,1,1)$
$44: P_{747} = (10,13,1,1)$
$45: P_{792} = (7,0,2,1)$
$46: P_{808} = (7,1,2,1)$
$47: P_{815} = (14,1,2,1)$
$48: P_{821} = (4,2,2,1)$
$49: P_{867} = (2,5,2,1)$
$50: P_{875} = (10,5,2,1)$
$51: P_{890} = (9,6,2,1)$
$52: P_{891} = (10,6,2,1)$
$53: P_{897} = (0,7,2,1)$

$54: P_{909} = (12, 7, 2, 1)$
$55: P_{922} = (9, 8, 2, 1)$
$56: P_{925} = (12, 8, 2, 1)$
$57: P_{1013} = (4, 14, 2, 1)$
$58: P_{1023} = (14, 14, 2, 1)$
$59: P_{1046} = (5, 0, 3, 1)$
$60: P_{1081} = (8, 2, 3, 1)$
$61: P_{1087} = (14, 2, 3, 1)$
$62: P_{1101} = (12, 3, 3, 1)$
$63: P_{1121} = (0, 5, 3, 1)$
$64: P_{1135} = (14, 5, 3, 1)$
$65: P_{1138} = (1, 6, 3, 1)$
$66: P_{1140} = (3, 6, 3, 1)$
$67: P_{1206} = (5, 10, 3, 1)$
$68: P_{1214} = (13, 10, 3, 1)$
$69: P_{1261} = (12, 13, 3, 1)$
$70: P_{1262} = (13, 13, 3, 1)$
$71: P_{1282} = (1, 15, 3, 1)$
$72: P_{1289} = (8, 15, 3, 1)$
$73: P_{1309} = (12, 0, 4, 1)$
$74: P_{1315} = (2, 1, 4, 1)$
$75: P_{1325} = (12, 1, 4, 1)$
$76: P_{1331} = (2, 2, 4, 1)$
$77: P_{1338} = (9, 2, 4, 1)$
$78: P_{1370} = (9, 4, 4, 1)$
$79: P_{1429} = (4, 8, 4, 1)$
$80: P_{1436} = (11, 8, 4, 1)$
$81: P_{1489} = (0, 12, 4, 1)$
$82: P_{1495} = (6, 12, 4, 1)$
$83: P_{1516} = (11, 13, 4, 1)$
$84: P_{1519} = (14, 13, 4, 1)$
$85: P_{1543} = (6, 15, 4, 1)$
$86: P_{1551} = (14, 15, 4, 1)$
$87: P_{1561} = (8, 0, 5, 1)$
$88: P_{1602} = (1, 3, 5, 1)$
$89: P_{1616} = (15, 3, 5, 1)$
$90: P_{1619} = (2, 4, 5, 1)$
$91: P_{1632} = (15, 4, 5, 1)$
$92: P_{1639} = (6, 5, 5, 1)$
$93: P_{1671} = (6, 7, 5, 1)$
$94: P_{1672} = (7, 7, 5, 1)$
$95: P_{1681} = (0, 8, 5, 1)$
$96: P_{1683} = (2, 8, 5, 1)$
$97: P_{1736} = (7, 11, 5, 1)$
$98: P_{1737} = (8, 11, 5, 1)$
$99: P_{1762} = (1, 13, 5, 1)$
$100: P_{1766} = (5, 13, 5, 1)$
$101: P_{1811} = (2, 0, 6, 1)$
$102: P_{1841} = (0, 2, 6, 1)$
$103: P_{1844} = (3, 2, 6, 1)$
$104: P_{1879} = (6, 4, 6, 1)$
$105: P_{1883} = (10, 4, 6, 1)$
$106: P_{1894} = (5, 5, 6, 1)$
$107: P_{1904} = (15, 5, 6, 1)$
$108: P_{1920} = (15, 6, 6, 1)$
$109: P_{1960} = (7, 9, 6, 1)$
$110: P_{1963} = (10, 9, 6, 1)$
$111: P_{1987} = (2, 11, 6, 1)$
$112: P_{1990} = (5, 11, 6, 1)$
$113: P_{2004} = (3, 12, 6, 1)$
$114: P_{2008} = (7, 12, 6, 1)$
$115: P_{2074} = (9, 0, 7, 1)$
$116: P_{2103} = (6, 2, 7, 1)$
$117: P_{2107} = (10, 2, 7, 1)$
$118: P_{2182} = (5, 7, 7, 1)$
$119: P_{2209} = (0, 9, 7, 1)$
$120: P_{2217} = (8, 9, 7, 1)$
$121: P_{2250} = (9, 11, 7, 1)$
$122: P_{2256} = (15, 11, 7, 1)$
$123: P_{2279} = (6, 13, 7, 1)$
$124: P_{2281} = (8, 13, 7, 1)$
$125: P_{2296} = (7, 14, 7, 1)$
$126: P_{2299} = (10, 14, 7, 1)$
$127: P_{2310} = (5, 15, 7, 1)$
$128: P_{2320} = (15, 15, 7, 1)$
$129: P_{2336} = (15, 0, 8, 1)$
$130: P_{2402} = (1, 5, 8, 1)$
$131: P_{2404} = (3, 5, 8, 1)$
$132: P_{2434} = (1, 7, 8, 1)$
$133: P_{2441} = (8, 7, 8, 1)$
$134: P_{2462} = (13, 8, 8, 1)$
$135: P_{2468} = (3, 9, 8, 1)$
$136: P_{2469} = (4, 9, 8, 1)$
$137: P_{2493} = (12, 10, 8, 1)$
$138: P_{2496} = (15, 10, 8, 1)$
$139: P_{2525} = (12, 12, 8, 1)$
$140: P_{2526} = (13, 12, 8, 1)$
$141: P_{2561} = (0, 15, 8, 1)$
$142: P_{2565} = (4, 15, 8, 1)$
$143: P_{2583} = (6, 0, 9, 1)$
$144: P_{2597} = (4, 1, 9, 1)$
$145: P_{2599} = (6, 1, 9, 1)$
$146: P_{2627} = (2, 3, 9, 1)$
$147: P_{2638} = (13, 3, 9, 1)$
$148: P_{2645} = (4, 4, 9, 1)$
$149: P_{2655} = (14, 4, 9, 1)$
$150: P_{2673} = (0, 6, 9, 1)$
$151: P_{2686} = (13, 6, 9, 1)$
$152: P_{2691} = (2, 7, 9, 1)$
$153: P_{2699} = (10, 7, 9, 1)$
$154: P_{2735} = (14, 9, 9, 1)$
$155: P_{2826} = (9, 15, 9, 1)$
$156: P_{2827} = (10, 15, 9, 1)$
$157: P_{2843} = (10, 0, 10, 1)$
$158: P_{2852} = (3, 1, 10, 1)$
$159: P_{2857} = (8, 1, 10, 1)$
$160: P_{2898} = (1, 4, 10, 1)$
$161: P_{2905} = (8, 4, 10, 1)$

162 : $P_{2924} = (11, 5, 10, 1)$
163 : $P_{2926} = (13, 5, 10, 1)$
164 : $P_{2993} = (0, 10, 10, 1)$
165 : $P_{3021} = (12, 11, 10, 1)$
166 : $P_{3022} = (13, 11, 10, 1)$
167 : $P_{3058} = (1, 14, 10, 1)$
168 : $P_{3060} = (3, 14, 10, 1)$
169 : $P_{3084} = (11, 15, 10, 1)$
170 : $P_{3085} = (12, 15, 10, 1)$
171 : $P_{3100} = (11, 0, 11, 1)$
172 : $P_{3110} = (5, 1, 11, 1)$
173 : $P_{3120} = (15, 1, 11, 1)$
174 : $P_{3122} = (1, 2, 11, 1)$
175 : $P_{3126} = (5, 2, 11, 1)$
176 : $P_{3143} = (6, 3, 11, 1)$
177 : $P_{3147} = (10, 3, 11, 1)$
178 : $P_{3224} = (7, 8, 11, 1)$
179 : $P_{3227} = (10, 8, 11, 1)$
180 : $P_{3234} = (1, 9, 11, 1)$
181 : $P_{3248} = (15, 9, 11, 1)$
182 : $P_{3255} = (6, 10, 11, 1)$
183 : $P_{3256} = (7, 10, 11, 1)$
184 : $P_{3265} = (0, 11, 11, 1)$
185 : $P_{3359} = (14, 0, 12, 1)$
186 : $P_{3388} = (11, 2, 12, 1)$
187 : $P_{3389} = (12, 2, 12, 1)$
188 : $P_{3396} = (3, 3, 12, 1)$
189 : $P_{3401} = (8, 3, 12, 1)$
190 : $P_{3420} = (11, 4, 12, 1)$
191 : $P_{3422} = (13, 4, 12, 1)$
192 : $P_{3470} = (13, 7, 12, 1)$
193 : $P_{3472} = (15, 7, 12, 1)$
194 : $P_{3508} = (3, 10, 12, 1)$
195 : $P_{3519} = (14, 10, 12, 1)$
196 : $P_{3545} = (8, 12, 12, 1)$
197 : $P_{3569} = (0, 14, 12, 1)$
198 : $P_{3584} = (15, 14, 12, 1)$
199 : $P_{3605} = (4, 0, 13, 1)$
200 : $P_{3665} = (0, 4, 13, 1)$
201 : $P_{3670} = (5, 4, 13, 1)$
202 : $P_{3702} = (5, 6, 13, 1)$
203 : $P_{3709} = (12, 6, 13, 1)$
204 : $P_{3732} = (3, 8, 13, 1)$
205 : $P_{3737} = (8, 8, 13, 1)$
206 : $P_{3756} = (11, 9, 13, 1)$
207 : $P_{3758} = (13, 9, 13, 1)$
208 : $P_{3765} = (4, 10, 13, 1)$
209 : $P_{3769} = (8, 10, 13, 1)$
210 : $P_{3812} = (3, 13, 13, 1)$
211 : $P_{3836} = (11, 14, 13, 1)$
212 : $P_{3837} = (12, 14, 13, 1)$
213 : $P_{3870} = (13, 0, 14, 1)$
214 : $P_{3882} = (9, 1, 14, 1)$
215 : $P_{3886} = (13, 1, 14, 1)$
216 : $P_{3916} = (11, 3, 14, 1)$
217 : $P_{3919} = (14, 3, 14, 1)$
218 : $P_{3941} = (4, 5, 14, 1)$
219 : $P_{3944} = (7, 5, 14, 1)$
220 : $P_{4003} = (2, 9, 14, 1)$
221 : $P_{4010} = (9, 9, 14, 1)$
222 : $P_{4053} = (4, 12, 14, 1)$
223 : $P_{4060} = (11, 12, 14, 1)$
224 : $P_{4065} = (0, 13, 14, 1)$
225 : $P_{4072} = (7, 13, 14, 1)$
226 : $P_{4083} = (2, 14, 14, 1)$
227 : $P_{4116} = (3, 0, 15, 1)$
228 : $P_{4161} = (0, 3, 15, 1)$
229 : $P_{4170} = (9, 3, 15, 1)$
230 : $P_{4215} = (6, 6, 15, 1)$
231 : $P_{4216} = (7, 6, 15, 1)$
232 : $P_{4242} = (1, 8, 15, 1)$
233 : $P_{4246} = (5, 8, 15, 1)$
234 : $P_{4292} = (3, 11, 15, 1)$
235 : $P_{4295} = (6, 11, 15, 1)$
236 : $P_{4306} = (1, 12, 15, 1)$
237 : $P_{4320} = (15, 12, 15, 1)$
238 : $P_{4342} = (5, 14, 15, 1)$
239 : $P_{4346} = (9, 14, 15, 1)$
240 : $P_{4360} = (7, 15, 15, 1)$

Line Intersection Graph

Neighbor sets in the line intersection graph:
The surface has 241 points:
The points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$
1 : $P_1 = (0, 1, 0, 0)$
2 : $P_2 = (0, 0, 1, 0)$
3 : $P_{36} = (1, 1, 1, 0)$
4 : $P_{120} = (5, 6, 1, 0)$
5 : $P_{125} = (10, 6, 1, 0)$
6 : $P_{141} = (10, 7, 1, 0)$
7 : $P_{146} = (15, 7, 1, 0)$
8 : $P_{182} = (3, 10, 1, 0)$
9 : $P_{187} = (8, 10, 1, 0)$
10 : $P_{200} = (5, 11, 1, 0)$
11 : $P_{210} = (15, 11, 1, 0)$

12 : $P_{214} = (3, 12, 1, 0)$
13 : $P_{222} = (11, 12, 1, 0)$
14 : $P_{235} = (8, 13, 1, 0)$
15 : $P_{238} = (11, 13, 1, 0)$
16 : $P_{291} = (1, 1, 0, 1)$
17 : $P_{313} = (7, 2, 0, 1)$
18 : $P_{327} = (5, 3, 0, 1)$
19 : $P_{350} = (12, 4, 0, 1)$
20 : $P_{362} = (8, 5, 0, 1)$
21 : $P_{372} = (2, 6, 0, 1)$
22 : $P_{395} = (9, 7, 0, 1)$
23 : $P_{417} = (15, 8, 0, 1)$
24 : $P_{424} = (6, 9, 0, 1)$
25 : $P_{444} = (10, 10, 0, 1)$
26 : $P_{461} = (11, 11, 0, 1)$
27 : $P_{480} = (14, 12, 0, 1)$
28 : $P_{486} = (4, 13, 0, 1)$
29 : $P_{511} = (13, 14, 0, 1)$
30 : $P_{517} = (3, 15, 0, 1)$
31 : $P_{531} = (1, 0, 1, 1)$
32 : $P_{546} = (0, 1, 1, 1)$
33 : $P_{629} = (4, 6, 1, 1)$
34 : $P_{636} = (11, 6, 1, 1)$
35 : $P_{652} = (11, 7, 1, 1)$
36 : $P_{655} = (14, 7, 1, 1)$
37 : $P_{691} = (2, 10, 1, 1)$
38 : $P_{698} = (9, 10, 1, 1)$
39 : $P_{709} = (4, 11, 1, 1)$
40 : $P_{719} = (14, 11, 1, 1)$
41 : $P_{723} = (2, 12, 1, 1)$
42 : $P_{731} = (10, 12, 1, 1)$
43 : $P_{746} = (9, 13, 1, 1)$
44 : $P_{747} = (10, 13, 1, 1)$
45 : $P_{792} = (7, 0, 2, 1)$
46 : $P_{808} = (7, 1, 2, 1)$
47 : $P_{815} = (14, 1, 2, 1)$
48 : $P_{821} = (4, 2, 2, 1)$
49 : $P_{867} = (2, 5, 2, 1)$
50 : $P_{875} = (10, 5, 2, 1)$
51 : $P_{890} = (9, 6, 2, 1)$
52 : $P_{891} = (10, 6, 2, 1)$
53 : $P_{897} = (0, 7, 2, 1)$
54 : $P_{909} = (12, 7, 2, 1)$
55 : $P_{922} = (9, 8, 2, 1)$
56 : $P_{925} = (12, 8, 2, 1)$
57 : $P_{1013} = (4, 14, 2, 1)$
58 : $P_{1023} = (14, 14, 2, 1)$
59 : $P_{1046} = (5, 0, 3, 1)$
60 : $P_{1081} = (8, 2, 3, 1)$
61 : $P_{1087} = (14, 2, 3, 1)$
62 : $P_{1101} = (12, 3, 3, 1)$
63 : $P_{1121} = (0, 5, 3, 1)$
64 : $P_{1135} = (14, 5, 3, 1)$
65 : $P_{1138} = (1, 6, 3, 1)$
66 : $P_{1140} = (3, 6, 3, 1)$
67 : $P_{1206} = (5, 10, 3, 1)$
68 : $P_{1214} = (13, 10, 3, 1)$
69 : $P_{1261} = (12, 13, 3, 1)$
70 : $P_{1262} = (13, 13, 3, 1)$
71 : $P_{1282} = (1, 15, 3, 1)$
72 : $P_{1289} = (8, 15, 3, 1)$
73 : $P_{1309} = (12, 0, 4, 1)$
74 : $P_{1315} = (2, 1, 4, 1)$
75 : $P_{1325} = (12, 1, 4, 1)$
76 : $P_{1331} = (2, 2, 4, 1)$
77 : $P_{1338} = (9, 2, 4, 1)$
78 : $P_{1370} = (9, 4, 4, 1)$
79 : $P_{1429} = (4, 8, 4, 1)$
80 : $P_{1436} = (11, 8, 4, 1)$
81 : $P_{1489} = (0, 12, 4, 1)$
82 : $P_{1495} = (6, 12, 4, 1)$
83 : $P_{1516} = (11, 13, 4, 1)$
84 : $P_{1519} = (14, 13, 4, 1)$
85 : $P_{1543} = (6, 15, 4, 1)$
86 : $P_{1551} = (14, 15, 4, 1)$
87 : $P_{1561} = (8, 0, 5, 1)$
88 : $P_{1602} = (1, 3, 5, 1)$
89 : $P_{1616} = (15, 3, 5, 1)$
90 : $P_{1619} = (2, 4, 5, 1)$
91 : $P_{1632} = (15, 4, 5, 1)$
92 : $P_{1639} = (6, 5, 5, 1)$
93 : $P_{1671} = (6, 7, 5, 1)$
94 : $P_{1672} = (7, 7, 5, 1)$
95 : $P_{1681} = (0, 8, 5, 1)$
96 : $P_{1683} = (2, 8, 5, 1)$
97 : $P_{1736} = (7, 11, 5, 1)$
98 : $P_{1737} = (8, 11, 5, 1)$
99 : $P_{1762} = (1, 13, 5, 1)$
100 : $P_{1766} = (5, 13, 5, 1)$
101 : $P_{1811} = (2, 0, 6, 1)$
102 : $P_{1841} = (0, 2, 6, 1)$
103 : $P_{1844} = (3, 2, 6, 1)$
104 : $P_{1879} = (6, 4, 6, 1)$
105 : $P_{1883} = (10, 4, 6, 1)$
106 : $P_{1894} = (5, 5, 6, 1)$
107 : $P_{1904} = (15, 5, 6, 1)$
108 : $P_{1920} = (15, 6, 6, 1)$
109 : $P_{1960} = (7, 9, 6, 1)$
110 : $P_{1963} = (10, 9, 6, 1)$
111 : $P_{1987} = (2, 11, 6, 1)$
112 : $P_{1990} = (5, 11, 6, 1)$
113 : $P_{2004} = (3, 12, 6, 1)$
114 : $P_{2008} = (7, 12, 6, 1)$
115 : $P_{2074} = (9, 0, 7, 1)$
116 : $P_{2103} = (6, 2, 7, 1)$
117 : $P_{2107} = (10, 2, 7, 1)$
118 : $P_{2182} = (5, 7, 7, 1)$
119 : $P_{2209} = (0, 9, 7, 1)$
120 : $P_{2217} = (8, 9, 7, 1)$
121 : $P_{2250} = (9, 11, 7, 1)$
122 : $P_{2256} = (15, 11, 7, 1)$
123 : $P_{2279} = (6, 13, 7, 1)$
124 : $P_{2281} = (8, 13, 7, 1)$
125 : $P_{2296} = (7, 14, 7, 1)$
126 : $P_{2299} = (10, 14, 7, 1)$
127 : $P_{2310} = (5, 15, 7, 1)$
128 : $P_{2320} = (15, 15, 7, 1)$
129 : $P_{2336} = (15, 0, 8, 1)$
130 : $P_{2402} = (1, 5, 8, 1)$
131 : $P_{2404} = (3, 5, 8, 1)$
132 : $P_{2434} = (1, 7, 8, 1)$
133 : $P_{2441} = (8, 7, 8, 1)$
134 : $P_{2462} = (13, 8, 8, 1)$
135 : $P_{2468} = (3, 9, 8, 1)$
136 : $P_{2469} = (4, 9, 8, 1)$
137 : $P_{2493} = (12, 10, 8, 1)$
138 : $P_{2496} = (15, 10, 8, 1)$
139 : $P_{2525} = (12, 12, 8, 1)$
140 : $P_{2526} = (13, 12, 8, 1)$
141 : $P_{2561} = (0, 15, 8, 1)$
142 : $P_{2565} = (4, 15, 8, 1)$
143 : $P_{2583} = (6, 0, 9, 1)$
144 : $P_{2597} = (4, 1, 9, 1)$
145 : $P_{2599} = (6, 1, 9, 1)$
146 : $P_{2627} = (2, 3, 9, 1)$
147 : $P_{2638} = (13, 3, 9, 1)$
148 : $P_{2645} = (4, 4, 9, 1)$
149 : $P_{2655} = (14, 4, 9, 1)$
150 : $P_{2673} = (0, 6, 9, 1)$
151 : $P_{2686} = (13, 6, 9, 1)$
152 : $P_{2691} = (2, 7, 9, 1)$
153 : $P_{2699} = (10, 7, 9, 1)$
154 : $P_{2735} = (14, 9, 9, 1)$
155 : $P_{2826} = (9, 15, 9, 1)$
156 : $P_{2827} = (10, 15, 9, 1)$
157 : $P_{2843} = (10, 0, 10, 1)$
158 : $P_{2852} = (3, 1, 10, 1)$
159 : $P_{2857} = (8, 1, 10, 1)$
160 : $P_{2898} = (1, 4, 10, 1)$
161 : $P_{2905} = (8, 4, 10, 1)$
162 : $P_{2924} = (11, 5, 10, 1)$
163 : $P_{2926} = (13, 5, 10, 1)$
164 : $P_{2993} = (0, 10, 10, 1)$
165 : $P_{3021} = (12, 11, 10, 1)$
166 : $P_{3022} = (13, 11, 10, 1)$
167 : $P_{3058} = (1, 14, 10, 1)$
168 : $P_{3060} = (3, 14, 10, 1)$
169 : $P_{3084} = (11, 15, 10, 1)$
170 : $P_{3085} = (12, 15, 10, 1)$
171 : $P_{3100} = (11, 0, 11, 1)$
172 : $P_{3110} = (5, 1, 11, 1)$
173 : $P_{3120} = (15, 1, 11, 1)$

174 : $P_{3122} = (1, 2, 11, 1)$
175 : $P_{3126} = (5, 2, 11, 1)$
176 : $P_{3143} = (6, 3, 11, 1)$
177 : $P_{3147} = (10, 3, 11, 1)$
178 : $P_{3224} = (7, 8, 11, 1)$
179 : $P_{3227} = (10, 8, 11, 1)$
180 : $P_{3234} = (1, 9, 11, 1)$
181 : $P_{3248} = (15, 9, 11, 1)$
182 : $P_{3255} = (6, 10, 11, 1)$
183 : $P_{3256} = (7, 10, 11, 1)$
184 : $P_{3265} = (0, 11, 11, 1)$
185 : $P_{3359} = (14, 0, 12, 1)$
186 : $P_{3388} = (11, 2, 12, 1)$
187 : $P_{3389} = (12, 2, 12, 1)$
188 : $P_{3396} = (3, 3, 12, 1)$
189 : $P_{3401} = (8, 3, 12, 1)$
190 : $P_{3420} = (11, 4, 12, 1)$
191 : $P_{3422} = (13, 4, 12, 1)$
192 : $P_{3470} = (13, 7, 12, 1)$
193 : $P_{3472} = (15, 7, 12, 1)$
194 : $P_{3508} = (3, 10, 12, 1)$
195 : $P_{3519} = (14, 10, 12, 1)$
196 : $P_{3545} = (8, 12, 12, 1)$
197 : $P_{3569} = (0, 14, 12, 1)$
198 : $P_{3584} = (15, 14, 12, 1)$
199 : $P_{3605} = (4, 0, 13, 1)$
200 : $P_{3665} = (0, 4, 13, 1)$
201 : $P_{3670} = (5, 4, 13, 1)$
202 : $P_{3702} = (5, 6, 13, 1)$
203 : $P_{3709} = (12, 6, 13, 1)$
204 : $P_{3732} = (3, 8, 13, 1)$
205 : $P_{3737} = (8, 8, 13, 1)$
206 : $P_{3756} = (11, 9, 13, 1)$
207 : $P_{3758} = (13, 9, 13, 1)$
208 : $P_{3765} = (4, 10, 13, 1)$
209 : $P_{3769} = (8, 10, 13, 1)$
210 : $P_{3812} = (3, 13, 13, 1)$
211 : $P_{3836} = (11, 14, 13, 1)$
212 : $P_{3837} = (12, 14, 13, 1)$
213 : $P_{3870} = (13, 0, 14, 1)$
214 : $P_{3882} = (9, 1, 14, 1)$
215 : $P_{3886} = (13, 1, 14, 1)$
216 : $P_{3916} = (11, 3, 14, 1)$
217 : $P_{3919} = (14, 3, 14, 1)$
218 : $P_{3941} = (4, 5, 14, 1)$
219 : $P_{3944} = (7, 5, 14, 1)$
220 : $P_{4003} = (2, 9, 14, 1)$
221 : $P_{4010} = (9, 9, 14, 1)$
222 : $P_{4053} = (4, 12, 14, 1)$
223 : $P_{4060} = (11, 12, 14, 1)$
224 : $P_{4065} = (0, 13, 14, 1)$
225 : $P_{4072} = (7, 13, 14, 1)$
226 : $P_{4083} = (2, 14, 14, 1)$
227 : $P_{4116} = (3, 0, 15, 1)$
228 : $P_{4161} = (0, 3, 15, 1)$
229 : $P_{4170} = (9, 3, 15, 1)$
230 : $P_{4215} = (6, 6, 15, 1)$
231 : $P_{4216} = (7, 6, 15, 1)$
232 : $P_{4242} = (1, 8, 15, 1)$
233 : $P_{4246} = (5, 8, 15, 1)$
234 : $P_{4292} = (3, 11, 15, 1)$
235 : $P_{4295} = (6, 11, 15, 1)$
236 : $P_{4306} = (1, 12, 15, 1)$
237 : $P_{4320} = (15, 12, 15, 1)$
238 : $P_{4342} = (5, 14, 15, 1)$
239 : $P_{4346} = (9, 14, 15, 1)$
240 : $P_{4360} = (7, 15, 15, 1)$