Rank-74248 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_2^3 + X_1^2X_3 + X_0X_3^2 + X_0X_1X_2 = 0$$

(1, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(16) is 286331414

General information

Number of lines	0
Number of points	257
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	257
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0^{257}

Singular Points

The surface has 1 singular points:

$0 : \ P_{275} = \mathbf{P}(1,0,0,1) = \mathbf{P}(1,0,0,1)$

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

$0: P_1 = (0,1,0,0)$
$1: P_3 = (0,0,0,1)$
$2: P_{20} = (1,0,1,0)$
$3: P_{29} = (10,0,1,0)$
$4: P_{30} = (11,0,1,0)$
$5: P_{58} = (7,2,1,0)$
$6: P_{76} = (9,3,1,0)$
$7: P_{95} = (12,4,1,0)$
$8: P_{113} = (14,5,1,0)$
$9: P_{130} = (15,6,1,0)$
$10: P_{136} = (5,7,1,0)$
$11: P_{149} = (2,8,1,0)$
$12: P_{169} = (6,9,1,0)$
$13: P_{219} = (8,12,1,0)$
$14: P_{230} = (3,13,1,0)$
$15: P_{256} = (13,14,1,0)$
$16: P_{263} = (4,15,1,0)$
$17: P_{275} = (1,0,0,1)$
$18: P_{335} = (13,3,0,1)$
$19: P_{361} = (7,5,0,1)$
$20: P_{378} = (8,6,0,1)$
$21: P_{389} = (3,7,0,1)$
$22: P_{414} = (12,8,0,1)$
$23: P_{438} = (4,10,0,1)$
$24: P_{444} = (10,10,0,1)$
$25: P_{448} = (14,10,0,1)$
$26: P_{452} = (2,11,0,1)$
$27: P_{459} = (9,11,0,1)$
$28: P_{461} = (11,11,0,1)$
$29: P_{471} = (5,12,0,1)$
$30: P_{497} = (15,13,0,1)$
$31: P_{520} = (6,15,0,1)$
$32: P_{546} = (0,1,1,1)$
$33: P_{572} = (11,2,1,1)$
$34: P_{603} = (10,4,1,1)$
$35: P_{637} = (12,6,1,1)$
$36: P_{654} = (13,7,1,1)$
$37: P_{684} = (11,9,1,1)$
$38: P_{690} = (1,10,1,1)$
$39: P_{701} = (12,10,1,1)$
$40: P_{702} = (13,10,1,1)$
$41: P_{706} = (1,11,1,1)$
$42: P_{711} = (6,11,1,1)$
$43: P_{712} = (7,11,1,1)$
$44: P_{728} = (7,12,1,1)$
$45: P_{743} = (6,13,1,1)$
$46: P_{763} = (10,14,1,1)$
$47: P_{792} = (7,0,2,1)$
$48: P_{855} = (6,4,2,1)$
$49: P_{865} = (0,5,2,1)$
$50: P_{875} = (10,5,2,1)$
$51: P_{919} = (6,8,2,1)$
$52: P_{923} = (10,8,2,1)$
$53: P_{925} = (12,8,2,1)$

$54: P_{941} = (12, 9, 2, 1)$
$55: P_{960} = (15, 10, 2, 1)$
$56: P_{1008} = (15, 13, 2, 1)$
$57: P_{1016} = (7, 14, 2, 1)$
$58: P_{1053} = (12, 0, 3, 1)$
$59: P_{1068} = (11, 1, 3, 1)$
$60: P_{1096} = (7, 3, 3, 1)$
$61: P_{1126} = (5, 5, 3, 1)$
$62: P_{1132} = (11, 5, 3, 1)$
$63: P_{1135} = (14, 5, 3, 1)$
$64: P_{1169} = (0, 8, 3, 1)$
$65: P_{1194} = (9, 9, 3, 1)$
$66: P_{1203} = (2, 10, 3, 1)$
$67: P_{1206} = (5, 10, 3, 1)$
$68: P_{1208} = (7, 10, 3, 1)$
$69: P_{1226} = (9, 11, 3, 1)$
$70: P_{1235} = (2, 12, 3, 1)$
$71: P_{1261} = (12, 13, 3, 1)$
$72: P_{1279} = (14, 14, 3, 1)$
$73: P_{1309} = (12, 0, 4, 1)$
$74: P_{1341} = (12, 2, 4, 1)$
$75: P_{1412} = (3, 7, 4, 1)$
$76: P_{1425} = (0, 8, 4, 1)$
$77: P_{1436} = (11, 8, 4, 1)$
$78: P_{1454} = (13, 9, 4, 1)$
$79: P_{1476} = (3, 11, 4, 1)$
$80: P_{1527} = (6, 14, 4, 1)$
$81: P_{1543} = (6, 15, 4, 1)$
$82: P_{1548} = (11, 15, 4, 1)$
$83: P_{1550} = (13, 15, 4, 1)$
$84: P_{1559} = (6, 0, 5, 1)$
$85: P_{1579} = (10, 1, 5, 1)$
$86: P_{1587} = (2, 2, 5, 1)$
$87: P_{1645} = (12, 5, 5, 1)$
$88: P_{1653} = (4, 6, 5, 1)$
$89: P_{1671} = (6, 7, 5, 1)$
$90: P_{1683} = (2, 8, 5, 1)$
$91: P_{1689} = (8, 8, 5, 1)$
$92: P_{1691} = (10, 8, 5, 1)$
$93: P_{1727} = (14, 10, 5, 1)$
$94: P_{1733} = (4, 11, 5, 1)$
$95: P_{1737} = (8, 11, 5, 1)$
$96: P_{1741} = (12, 11, 5, 1)$
$97: P_{1791} = (14, 14, 5, 1)$
$98: P_{1793} = (0, 15, 5, 1)$
$99: P_{1822} = (13, 0, 6, 1)$
$100: P_{1839} = (14, 1, 6, 1)$
$101: P_{1844} = (3, 2, 6, 1)$
$102: P_{1857} = (0, 3, 6, 1)$
$103: P_{1867} = (10, 3, 6, 1)$
$104: P_{1902} = (13, 5, 6, 1)$
$105: P_{1916} = (11, 6, 6, 1)$
$106: P_{1940} = (3, 8, 6, 1)$
$107: P_{1958} = (5, 9, 6, 1)$
$108: P_{1970} = (1, 10, 6, 1)$
$109: P_{2002} = (1, 12, 6, 1)$
$110: P_{2027} = (10, 13, 6, 1)$
$111: P_{2038} = (5, 14, 6, 1)$
$112: P_{2044} = (11, 14, 6, 1)$
$113: P_{2047} = (14, 14, 6, 1)$
$114: P_{2077} = (12, 0, 7, 1)$
$115: P_{2085} = (4, 1, 7, 1)$
$116: P_{2112} = (15, 2, 7, 1)$
$117: P_{2121} = (8, 3, 7, 1)$
$118: P_{2133} = (4, 4, 7, 1)$
$119: P_{2140} = (11, 4, 7, 1)$
$120: P_{2144} = (15, 4, 7, 1)$
$121: P_{2188} = (11, 7, 7, 1)$
$122: P_{2193} = (0, 8, 7, 1)$
$123: P_{2203} = (10, 8, 7, 1)$
$124: P_{2217} = (8, 9, 7, 1)$
$125: P_{2226} = (1, 10, 7, 1)$
$126: P_{2267} = (10, 12, 7, 1)$
$127: P_{2274} = (1, 13, 7, 1)$
$128: P_{2317} = (12, 15, 7, 1)$
$129: P_{2334} = (13, 0, 8, 1)$
$130: P_{2348} = (11, 1, 8, 1)$
$131: P_{2355} = (2, 2, 8, 1)$
$132: P_{2369} = (0, 3, 8, 1)$
$133: P_{2389} = (4, 4, 8, 1)$
$134: P_{2455} = (6, 8, 8, 1)$
$135: P_{2487} = (6, 10, 8, 1)$
$136: P_{2490} = (9, 10, 8, 1)$
$137: P_{2496} = (15, 10, 8, 1)$
$138: P_{2499} = (2, 11, 8, 1)$
$139: P_{2526} = (13, 12, 8, 1)$
$140: P_{2538} = (9, 13, 8, 1)$
$141: P_{2565} = (4, 15, 8, 1)$
$142: P_{2572} = (11, 15, 8, 1)$
$143: P_{2576} = (15, 15, 8, 1)$
$144: P_{2583} = (6, 0, 9, 1)$
$145: P_{2622} = (13, 2, 9, 1)$
$146: P_{2632} = (7, 3, 9, 1)$
$147: P_{2635} = (10, 3, 9, 1)$
$148: P_{2638} = (13, 3, 9, 1)$
$149: P_{2647} = (6, 4, 9, 1)$
$150: P_{2742} = (5, 10, 9, 1)$
$151: P_{2774} = (5, 12, 9, 1)$
$152: P_{2808} = (7, 14, 9, 1)$
$153: P_{2817} = (0, 15, 9, 1)$
$154: P_{2827} = (10, 15, 9, 1)$
$155: P_{2849} = (0, 1, 10, 1)$
$156: P_{2859} = (10, 1, 10, 1)$
$157: P_{2877} = (12, 2, 10, 1)$
$158: P_{2883} = (2, 3, 10, 1)$
$159: P_{2886} = (5, 3, 10, 1)$
$160: P_{2888} = (7, 3, 10, 1)$
$161: P_{2906} = (9, 4, 10, 1)$

162 : $P_{2914} = (1, 5, 10, 1)$
163 : $P_{2935} = (6, 6, 10, 1)$
164 : $P_{2940} = (11, 6, 10, 1)$
165 : $P_{2942} = (13, 6, 10, 1)$
166 : $P_{2952} = (7, 7, 10, 1)$
167 : $P_{2956} = (11, 7, 10, 1)$
168 : $P_{2957} = (12, 7, 10, 1)$
169 : $P_{2967} = (6, 8, 10, 1)$
170 : $P_{2970} = (9, 8, 10, 1)$
171 : $P_{2976} = (15, 8, 10, 1)$
172 : $P_{2990} = (13, 9, 10, 1)$
173 : $P_{2998} = (5, 10, 10, 1)$
174 : $P_{3003} = (10, 10, 10, 1)$
175 : $P_{3008} = (15, 10, 10, 1)$
176 : $P_{3059} = (2, 14, 10, 1)$
177 : $P_{3074} = (1, 15, 10, 1)$
178 : $P_{3105} = (0, 1, 11, 1)$
179 : $P_{3116} = (11, 1, 11, 1)$
180 : $P_{3125} = (4, 2, 11, 1)$
181 : $P_{3138} = (1, 3, 11, 1)$
182 : $P_{3159} = (6, 4, 11, 1)$
183 : $P_{3173} = (4, 5, 11, 1)$
184 : $P_{3177} = (8, 5, 11, 1)$
185 : $P_{3181} = (12, 5, 11, 1)$
186 : $P_{3218} = (1, 8, 11, 1)$
187 : $P_{3247} = (14, 9, 11, 1)$
188 : $P_{3268} = (3, 11, 11, 1)$
189 : $P_{3273} = (8, 11, 11, 1)$
190 : $P_{3276} = (11, 11, 11, 1)$
191 : $P_{3287} = (6, 12, 11, 1)$
192 : $P_{3291} = (10, 12, 11, 1)$
193 : $P_{3293} = (12, 12, 11, 1)$
194 : $P_{3304} = (7, 13, 11, 1)$
195 : $P_{3307} = (10, 13, 11, 1)$
196 : $P_{3310} = (13, 13, 11, 1)$
197 : $P_{3320} = (7, 14, 11, 1)$
198 : $P_{3332} = (3, 15, 11, 1)$
199 : $P_{3342} = (13, 15, 11, 1)$
200 : $P_{3343} = (14, 15, 11, 1)$
201 : $P_{3351} = (6, 0, 12, 1)$
202 : $P_{3370} = (9, 1, 12, 1)$
203 : $P_{3399} = (6, 3, 12, 1)$
204 : $P_{3412} = (3, 4, 12, 1)$
205 : $P_{3440} = (15, 5, 12, 1)$
206 : $P_{3452} = (11, 6, 12, 1)$
207 : $P_{3458} = (1, 7, 12, 1)$
208 : $P_{3492} = (3, 9, 12, 1)$
209 : $P_{3498} = (9, 9, 12, 1)$
210 : $P_{3499} = (10, 9, 12, 1)$
211 : $P_{3522} = (1, 11, 12, 1)$
212 : $P_{3547} = (10, 12, 12, 1)$
213 : $P_{3584} = (15, 14, 12, 1)$
214 : $P_{3585} = (0, 15, 12, 1)$
215 : $P_{3596} = (11, 15, 12, 1)$
216 : $P_{3608} = (7, 0, 13, 1)$
217 : $P_{3619} = (2, 1, 13, 1)$
218 : $P_{3635} = (2, 2, 13, 1)$
219 : $P_{3641} = (8, 2, 13, 1)$
220 : $P_{3643} = (10, 2, 13, 1)$
221 : $P_{3670} = (5, 4, 13, 1)$
222 : $P_{3681} = (0, 5, 13, 1)$
223 : $P_{3692} = (11, 5, 13, 1)$
224 : $P_{3698} = (1, 6, 13, 1)$
225 : $P_{3724} = (11, 7, 13, 1)$
226 : $P_{3736} = (7, 8, 13, 1)$
227 : $P_{3778} = (1, 11, 13, 1)$
228 : $P_{3819} = (10, 13, 13, 1)$
229 : $P_{3833} = (8, 14, 13, 1)$
230 : $P_{3846} = (5, 15, 13, 1)$
231 : $P_{3870} = (13, 0, 14, 1)$
232 : $P_{3901} = (12, 2, 14, 1)$
233 : $P_{3905} = (0, 3, 14, 1)$
234 : $P_{3916} = (11, 3, 14, 1)$
235 : $P_{3928} = (7, 4, 14, 1)$
236 : $P_{3944} = (7, 5, 14, 1)$
237 : $P_{3948} = (11, 5, 14, 1)$
238 : $P_{3949} = (12, 5, 14, 1)$
239 : $P_{3961} = (8, 6, 14, 1)$
240 : $P_{4014} = (13, 9, 14, 1)$
241 : $P_{4041} = (8, 11, 14, 1)$
242 : $P_{4120} = (7, 0, 15, 1)$
243 : $P_{4139} = (10, 1, 15, 1)$
244 : $P_{4164} = (3, 3, 15, 1)$
245 : $P_{4170} = (9, 3, 15, 1)$
246 : $P_{4171} = (10, 3, 15, 1)$
247 : $P_{4181} = (4, 4, 15, 1)$
248 : $P_{4193} = (0, 5, 15, 1)$
249 : $P_{4216} = (7, 6, 15, 1)$
250 : $P_{4239} = (14, 7, 15, 1)$
251 : $P_{4266} = (9, 9, 15, 1)$
252 : $P_{4277} = (4, 10, 15, 1)$
253 : $P_{4292} = (3, 11, 15, 1)$
254 : $P_{4302} = (13, 11, 15, 1)$
255 : $P_{4303} = (14, 11, 15, 1)$
256 : $P_{4366} = (13, 15, 15, 1)$

Line Intersection Graph

Neighbor sets in the line intersection graph:
The surface has 257 points:

The points on the surface are:

0 : $P_{1} = (0, 1, 0, 0)$
1 : $P_{3} = (0, 0, 0, 1)$
2 : $P_{20} = (1, 0, 1, 0)$
3 : $P_{29} = (10, 0, 1, 0)$
4 : $P_{30} = (11, 0, 1, 0)$
5 : $P_{58} = (7, 2, 1, 0)$
6 : $P_{76} = (9, 3, 1, 0)$
7 : $P_{95} = (12, 4, 1, 0)$
8 : $P_{113} = (14, 5, 1, 0)$
9 : $P_{130} = (15, 6, 1, 0)$
10 : $P_{136} = (5, 7, 1, 0)$
11 : $P_{149} = (2, 8, 1, 0)$
12 : $P_{169} = (6, 9, 1, 0)$
13 : $P_{219} = (8, 12, 1, 0)$
14 : $P_{230} = (3, 13, 1, 0)$
15 : $P_{256} = (13, 14, 1, 0)$
16 : $P_{263} = (4, 15, 1, 0)$
17 : $P_{275} = (1, 0, 0, 1)$
18 : $P_{335} = (13, 3, 0, 1)$
19 : $P_{361} = (7, 5, 0, 1)$
20 : $P_{378} = (8, 6, 0, 1)$
21 : $P_{389} = (3, 7, 0, 1)$
22 : $P_{414} = (12, 8, 0, 1)$
23 : $P_{438} = (4, 10, 0, 1)$
24 : $P_{444} = (10, 10, 0, 1)$
25 : $P_{448} = (14, 10, 0, 1)$
26 : $P_{452} = (2, 11, 0, 1)$
27 : $P_{459} = (9, 11, 0, 1)$
28 : $P_{461} = (11, 11, 0, 1)$
29 : $P_{471} = (5, 12, 0, 1)$
30 : $P_{497} = (15, 13, 0, 1)$
31 : $P_{520} = (6, 15, 0, 1)$
32 : $P_{546} = (0, 1, 1, 1)$
33 : $P_{572} = (11, 2, 1, 1)$
34 : $P_{603} = (10, 4, 1, 1)$
35 : $P_{637} = (12, 6, 1, 1)$
36 : $P_{654} = (13, 7, 1, 1)$
37 : $P_{684} = (11, 9, 1, 1)$
38 : $P_{690} = (1, 10, 1, 1)$
39 : $P_{701} = (12, 10, 1, 1)$
40 : $P_{702} = (13, 10, 1, 1)$
41 : $P_{706} = (1, 11, 1, 1)$
42 : $P_{711} = (6, 11, 1, 1)$
43 : $P_{712} = (7, 11, 1, 1)$
44 : $P_{728} = (7, 12, 1, 1)$
45 : $P_{743} = (6, 13, 1, 1)$
46 : $P_{763} = (10, 14, 1, 1)$
47 : $P_{792} = (7, 0, 2, 1)$
48 : $P_{855} = (6, 4, 2, 1)$
49 : $P_{865} = (0, 5, 2, 1)$
50 : $P_{875} = (10, 5, 2, 1)$
51 : $P_{919} = (6, 8, 2, 1)$
52 : $P_{923} = (10, 8, 2, 1)$
53 : $P_{925} = (12, 8, 2, 1)$
54 : $P_{941} = (12, 9, 2, 1)$
55 : $P_{960} = (15, 10, 2, 1)$
56 : $P_{1008} = (15, 13, 2, 1)$
57 : $P_{1016} = (7, 14, 2, 1)$
58 : $P_{1053} = (12, 0, 3, 1)$
59 : $P_{1068} = (11, 1, 3, 1)$
60 : $P_{1096} = (7, 3, 3, 1)$
61 : $P_{1126} = (5, 5, 3, 1)$
62 : $P_{1132} = (11, 5, 3, 1)$
63 : $P_{1135} = (14, 5, 3, 1)$
64 : $P_{1169} = (0, 8, 3, 1)$
65 : $P_{1194} = (9, 9, 3, 1)$
66 : $P_{1203} = (2, 10, 3, 1)$
67 : $P_{1206} = (5, 10, 3, 1)$
68 : $P_{1208} = (7, 10, 3, 1)$
69 : $P_{1226} = (9, 11, 3, 1)$
70 : $P_{1235} = (2, 12, 3, 1)$
71 : $P_{1261} = (12, 13, 3, 1)$
72 : $P_{1279} = (14, 14, 3, 1)$
73 : $P_{1309} = (12, 0, 4, 1)$
74 : $P_{1341} = (12, 2, 4, 1)$
75 : $P_{1412} = (3, 7, 4, 1)$
76 : $P_{1425} = (0, 8, 4, 1)$
77 : $P_{1436} = (11, 8, 4, 1)$
78 : $P_{1454} = (13, 9, 4, 1)$
79 : $P_{1476} = (3, 11, 4, 1)$
80 : $P_{1527} = (6, 14, 4, 1)$
81 : $P_{1543} = (6, 15, 4, 1)$
82 : $P_{1548} = (11, 15, 4, 1)$
83 : $P_{1550} = (13, 15, 4, 1)$
84 : $P_{1559} = (6, 0, 5, 1)$
85 : $P_{1579} = (10, 1, 5, 1)$
86 : $P_{1587} = (2, 2, 5, 1)$
87 : $P_{1645} = (12, 5, 5, 1)$
88 : $P_{1653} = (4, 6, 5, 1)$
89 : $P_{1671} = (6, 7, 5, 1)$
90 : $P_{1683} = (2, 8, 5, 1)$
91 : $P_{1689} = (8, 8, 5, 1)$
92 : $P_{1691} = (10, 8, 5, 1)$
93 : $P_{1727} = (14, 10, 5, 1)$
94 : $P_{1733} = (4, 11, 5, 1)$
95 : $P_{1737} = (8, 11, 5, 1)$
96 : $P_{1741} = (12, 11, 5, 1)$
97 : $P_{1791} = (14, 14, 5, 1)$
98 : $P_{1793} = (0, 15, 5, 1)$
99 : $P_{1822} = (13, 0, 6, 1)$
100 : $P_{1839} = (14, 1, 6, 1)$
101 : $P_{1844} = (3, 2, 6, 1)$
102 : $P_{1857} = (0, 3, 6, 1)$
103 : $P_{1867} = (10, 3, 6, 1)$
104 : $P_{1902} = (13, 5, 6, 1)$
105 : $P_{1916} = (11, 6, 6, 1)$
106 : $P_{1940} = (3, 8, 6, 1)$
107 : $P_{1958} = (5, 9, 6, 1)$
108 : $P_{1970} = (1, 10, 6, 1)$
109 : $P_{2002} = (1, 12, 6, 1)$
110 : $P_{2027} = (10, 13, 6, 1)$
111 : $P_{2038} = (5, 14, 6, 1)$
112 : $P_{2044} = (11, 14, 6, 1)$
113 : $P_{2047} = (14, 14, 6, 1)$
114 : $P_{2077} = (12, 0, 7, 1)$
115 : $P_{2085} = (4, 1, 7, 1)$
116 : $P_{2112} = (15, 2, 7, 1)$
117 : $P_{2121} = (8, 3, 7, 1)$
118 : $P_{2133} = (4, 4, 7, 1)$
119 : $P_{2140} = (11, 4, 7, 1)$
120 : $P_{2144} = (15, 4, 7, 1)$
121 : $P_{2188} = (11, 7, 7, 1)$
122 : $P_{2193} = (0, 8, 7, 1)$
123 : $P_{2203} = (10, 8, 7, 1)$
124 : $P_{2217} = (8, 9, 7, 1)$
125 : $P_{2226} = (1, 10, 7, 1)$
126 : $P_{2267} = (10, 12, 7, 1)$
127 : $P_{2274} = (1, 13, 7, 1)$
128 : $P_{2317} = (12, 15, 7, 1)$
129 : $P_{2334} = (13, 0, 8, 1)$
130 : $P_{2348} = (11, 1, 8, 1)$
131 : $P_{2355} = (2, 2, 8, 1)$
132 : $P_{2369} = (0, 3, 8, 1)$
133 : $P_{2389} = (4, 4, 8, 1)$
134 : $P_{2455} = (6, 8, 8, 1)$
135 : $P_{2487} = (6, 10, 8, 1)$
136 : $P_{2490} = (9, 10, 8, 1)$
137 : $P_{2496} = (15, 10, 8, 1)$
138 : $P_{2499} = (2, 11, 8, 1)$
139 : $P_{2526} = (13, 12, 8, 1)$
140 : $P_{2538} = (9, 13, 8, 1)$
141 : $P_{2565} = (4, 15, 8, 1)$
142 : $P_{2572} = (11, 15, 8, 1)$
143 : $P_{2576} = (15, 15, 8, 1)$
144 : $P_{2583} = (6, 0, 9, 1)$
145 : $P_{2622} = (13, 2, 9, 1)$
146 : $P_{2632} = (7, 3, 9, 1)$
147 : $P_{2635} = (10, 3, 9, 1)$
148 : $P_{2638} = (13, 3, 9, 1)$
149 : $P_{2647} = (6, 4, 9, 1)$
150 : $P_{2742} = (5, 10, 9, 1)$
151 : $P_{2774} = (5, 12, 9, 1)$
152 : $P_{2808} = (7, 14, 9, 1)$

153 : $P_{2817} = (0, 15, 9, 1)$
154 : $P_{2827} = (10, 15, 9, 1)$
155 : $P_{2849} = (0, 1, 10, 1)$
156 : $P_{2859} = (10, 1, 10, 1)$
157 : $P_{2877} = (12, 2, 10, 1)$
158 : $P_{2883} = (2, 3, 10, 1)$
159 : $P_{2886} = (5, 3, 10, 1)$
160 : $P_{2888} = (7, 3, 10, 1)$
161 : $P_{2906} = (9, 4, 10, 1)$
162 : $P_{2914} = (1, 5, 10, 1)$
163 : $P_{2935} = (6, 6, 10, 1)$
164 : $P_{2940} = (11, 6, 10, 1)$
165 : $P_{2942} = (13, 6, 10, 1)$
166 : $P_{2952} = (7, 7, 10, 1)$
167 : $P_{2956} = (11, 7, 10, 1)$
168 : $P_{2957} = (12, 7, 10, 1)$
169 : $P_{2967} = (6, 8, 10, 1)$
170 : $P_{2970} = (9, 8, 10, 1)$
171 : $P_{2976} = (15, 8, 10, 1)$
172 : $P_{2990} = (13, 9, 10, 1)$
173 : $P_{2998} = (5, 10, 10, 1)$
174 : $P_{3003} = (10, 10, 10, 1)$
175 : $P_{3008} = (15, 10, 10, 1)$
176 : $P_{3059} = (2, 14, 10, 1)$
177 : $P_{3074} = (1, 15, 10, 1)$
178 : $P_{3105} = (0, 1, 11, 1)$
179 : $P_{3116} = (11, 1, 11, 1)$
180 : $P_{3125} = (4, 2, 11, 1)$
181 : $P_{3138} = (1, 3, 11, 1)$
182 : $P_{3159} = (6, 4, 11, 1)$
183 : $P_{3173} = (4, 5, 11, 1)$
184 : $P_{3177} = (8, 5, 11, 1)$
185 : $P_{3181} = (12, 5, 11, 1)$
186 : $P_{3218} = (1, 8, 11, 1)$
187 : $P_{3247} = (14, 9, 11, 1)$
188 : $P_{3268} = (3, 11, 11, 1)$
189 : $P_{3273} = (8, 11, 11, 1)$
190 : $P_{3276} = (11, 11, 11, 1)$
191 : $P_{3287} = (6, 12, 11, 1)$
192 : $P_{3291} = (10, 12, 11, 1)$
193 : $P_{3293} = (12, 12, 11, 1)$
194 : $P_{3304} = (7, 13, 11, 1)$
195 : $P_{3307} = (10, 13, 11, 1)$
196 : $P_{3310} = (13, 13, 11, 1)$
197 : $P_{3320} = (7, 14, 11, 1)$
198 : $P_{3332} = (3, 15, 11, 1)$
199 : $P_{3342} = (13, 15, 11, 1)$
200 : $P_{3343} = (14, 15, 11, 1)$
201 : $P_{3351} = (6, 0, 12, 1)$
202 : $P_{3370} = (9, 1, 12, 1)$
203 : $P_{3399} = (6, 3, 12, 1)$
204 : $P_{3412} = (3, 4, 12, 1)$
205 : $P_{3440} = (15, 5, 12, 1)$
206 : $P_{3452} = (11, 6, 12, 1)$
207 : $P_{3458} = (1, 7, 12, 1)$
208 : $P_{3492} = (3, 9, 12, 1)$
209 : $P_{3498} = (9, 9, 12, 1)$
210 : $P_{3499} = (10, 9, 12, 1)$
211 : $P_{3522} = (1, 11, 12, 1)$
212 : $P_{3547} = (10, 12, 12, 1)$
213 : $P_{3584} = (15, 14, 12, 1)$
214 : $P_{3585} = (0, 15, 12, 1)$
215 : $P_{3596} = (11, 15, 12, 1)$
216 : $P_{3608} = (7, 0, 13, 1)$
217 : $P_{3619} = (2, 1, 13, 1)$
218 : $P_{3635} = (2, 2, 13, 1)$
219 : $P_{3641} = (8, 2, 13, 1)$
220 : $P_{3643} = (10, 2, 13, 1)$
221 : $P_{3670} = (5, 4, 13, 1)$
222 : $P_{3681} = (0, 5, 13, 1)$
223 : $P_{3692} = (11, 5, 13, 1)$
224 : $P_{3698} = (1, 6, 13, 1)$
225 : $P_{3724} = (11, 7, 13, 1)$
226 : $P_{3736} = (7, 8, 13, 1)$
227 : $P_{3778} = (1, 11, 13, 1)$
228 : $P_{3819} = (10, 13, 13, 1)$
229 : $P_{3833} = (8, 14, 13, 1)$
230 : $P_{3846} = (5, 15, 13, 1)$
231 : $P_{3870} = (13, 0, 14, 1)$
232 : $P_{3901} = (12, 2, 14, 1)$
233 : $P_{3905} = (0, 3, 14, 1)$
234 : $P_{3916} = (11, 3, 14, 1)$
235 : $P_{3928} = (7, 4, 14, 1)$
236 : $P_{3944} = (7, 5, 14, 1)$
237 : $P_{3948} = (11, 5, 14, 1)$
238 : $P_{3949} = (12, 5, 14, 1)$
239 : $P_{3961} = (8, 6, 14, 1)$
240 : $P_{4014} = (13, 9, 14, 1)$
241 : $P_{4041} = (8, 11, 14, 1)$
242 : $P_{4120} = (7, 0, 15, 1)$
243 : $P_{4139} = (10, 1, 15, 1)$
244 : $P_{4164} = (3, 3, 15, 1)$
245 : $P_{4170} = (9, 3, 15, 1)$
246 : $P_{4171} = (10, 3, 15, 1)$
247 : $P_{4181} = (4, 4, 15, 1)$
248 : $P_{4193} = (0, 5, 15, 1)$
249 : $P_{4216} = (7, 6, 15, 1)$
250 : $P_{4239} = (14, 7, 15, 1)$
251 : $P_{4266} = (9, 9, 15, 1)$
252 : $P_{4277} = (4, 10, 15, 1)$
253 : $P_{4292} = (3, 11, 15, 1)$
254 : $P_{4302} = (13, 11, 15, 1)$
255 : $P_{4303} = (14, 11, 15, 1)$
256 : $P_{4366} = (13, 15, 15, 1)$