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, 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:

$0 : P_0 = (1, 0, 0, 0)$

$1 : P_3 = (0, 0, 0, 1)$

$2 : P_4 = (1, 1, 1, 1)$

$3 : P_5 = (1, 1, 0, 0)$

$4 : P_{20} = (1, 0, 1, 0)$

$5 : P_{36} = (1, 1, 1, 0)$

$6 : P_{117} = (2, 6, 1, 0)$

$7 : P_{128} = (13, 6, 1, 0)$

$8 : P_{140} = (9, 7, 1, 0)$

$9 : P_{143} = (12, 7, 1, 0)$

$10 : P_{182} = (3, 10, 1, 0)$

$11 : P_{187} = (8, 10, 1, 0)$

$12 : P_{200} = (5, 11, 1, 0)$

$13 : P_{210} = (15, 11, 1, 0)$

$14 : P_{217} = (6, 12, 1, 0)$

$15 : P_{225} = (14, 12, 1, 0)$

$16 : P_{231} = (4, 13, 1, 0)$

$17 : P_{234} = (7, 13, 1, 0)$

$18 : P_{275} = (1, 0, 0, 1)$

$19 : P_{291} = (1, 1, 0, 1)$

$20 : P_{312} = (6, 2, 0, 1)$

$21 : P_{320} = (14, 2, 0, 1)$

$22 : P_{326} = (4, 3, 0, 1)$

$23 : P_{330} = (8, 3, 0, 1)$

$24 : P_{340} = (2, 4, 0, 1)$

$25 : P_{351} = (13, 4, 0, 1)$

$26 : P_{363} = (9, 5, 0, 1)$

$27 : P_{369} = (15, 5, 0, 1)$

$28 : P_{405} = (3, 8, 0, 1)$

$29 : P_{416} = (14, 8, 0, 1)$

$30 : P_{422} = (4, 9, 0, 1)$

$31 : P_{425} = (7, 9, 0, 1)$

$32 : P_{438} = (4, 10, 0, 1)$

$33 : P_{448} = (14, 10, 0, 1)$

$34 : P_{452} = (2, 11, 0, 1)$

$35 : P_{459} = (9, 11, 0, 1)$

$36 : P_{507} = (9, 14, 0, 1)$

$37 : P_{510} = (12, 14, 0, 1)$

$38 : P_{516} = (2, 15, 0, 1)$

$39 : P_{519} = (5, 15, 0, 1)$

$40 : P_{531} = (1, 0, 1, 1)$

$41 : P_{582} = (5, 3, 1, 1)$

$42 : P_{589} = (12, 3, 1, 1)$

$43 : P_{615} = (6, 5, 1, 1)$

$44 : P_{617} = (8, 5, 1, 1)$

$45 : P_{670} = (13, 8, 1, 1)$

$46 : P_{672} = (15, 8, 1, 1)$

$47 : P_{693} = (4, 10, 1, 1)$

$48 : P_{703} = (14, 10, 1, 1)$

$49 : P_{707} = (2, 11, 1, 1)$

$50 : P_{714} = (9, 11, 1, 1)$

$51 : P_{772} = (3, 15, 1, 1)$

$52 : P_{776} = (7, 15, 1, 1)$

$53 : P_{791} = (6, 0, 2, 1)$

$54: P_{799} = (14, 0, 2, 1)$

$55: P_{826} = (9, 2, 2, 1)$

$56: P_{829} = (12, 2, 2, 1)$

$57: P_{842} = (9, 3, 2, 1)$

$58: P_{854} = (5, 4, 2, 1)$

$59: P_{855} = (6, 4, 2, 1)$

$60: P_{883} = (2, 6, 2, 1)$

$61: P_{887} = (6, 6, 2, 1)$

$62: P_{931} = (2, 9, 2, 1)$

$63: P_{932} = (3, 9, 2, 1)$

$64: P_{991} = (14, 12, 2, 1)$

$65: P_{995} = (2, 13, 2, 1)$

$66: P_{1005} = (12, 13, 2, 1)$

$67: P_{1010} = (1, 14, 2, 1)$

$68: P_{1023} = (14, 14, 2, 1)$

$69: P_{1045} = (4, 0, 3, 1)$

$70: P_{1049} = (8, 0, 3, 1)$

$71: P_{1079} = (6, 2, 3, 1)$

$72: P_{1107} = (2, 4, 3, 1)$

$73: P_{1109} = (4, 4, 3, 1)$

$74: P_{1154} = (1, 7, 3, 1)$

$75: P_{1157} = (4, 7, 3, 1)$

$76: P_{1177} = (8, 8, 3, 1)$

$77: P_{1220} = (3, 11, 3, 1)$

$78: P_{1225} = (8, 11, 3, 1)$

$79: P_{1299} = (2, 0, 4, 1)$

$80: P_{1310} = (13, 0, 4, 1)$

$81: P_{1330} = (1, 2, 4, 1)$

$82: P_{1331} = (2, 2, 4, 1)$

$83: P_{1367} = (6, 4, 4, 1)$

$84: P_{1375} = (14, 4, 4, 1)$

$85: P_{1391} = (14, 5, 4, 1)$

$86: P_{1395} = (2, 6, 4, 1)$

$87: P_{1413} = (4, 7, 4, 1)$

$88: P_{1415} = (6, 7, 4, 1)$

$89: P_{1449} = (8, 9, 4, 1)$

$90: P_{1454} = (13, 9, 4, 1)$

$91: P_{1509} = (4, 13, 4, 1)$

$92: P_{1518} = (13, 13, 4, 1)$

$93: P_{1525} = (4, 14, 4, 1)$

$94: P_{1526} = (5, 14, 4, 1)$

$95: P_{1562} = (9, 0, 5, 1)$

$96: P_{1568} = (15, 0, 5, 1)$

$97: P_{1630} = (13, 4, 5, 1)$

$98: P_{1701} = (4, 9, 5, 1)$

$99: P_{1706} = (9, 9, 5, 1)$

$100: P_{1718} = (5, 10, 5, 1)$

$101: P_{1728} = (15, 10, 5, 1)$

$102: P_{1746} = (1, 12, 5, 1)$

$103: P_{1754} = (9, 12, 5, 1)$

$104: P_{1808} = (15, 15, 5, 1)$

$105: P_{1834} = (9, 1, 6, 1)$

$106: P_{1837} = (12, 1, 6, 1)$

$107: P_{1879} = (6, 4, 6, 1)$

$108: P_{1890} = (1, 5, 6, 1)$

$109: P_{1891} = (2, 5, 6, 1)$

$110: P_{1907} = (2, 6, 6, 1)$

$111: P_{1919} = (14, 6, 6, 1)$

$112: P_{1926} = (5, 7, 6, 1)$

$113: P_{1976} = (7, 10, 6, 1)$

$114: P_{1982} = (13, 10, 6, 1)$

$115: P_{2083} = (2, 1, 7, 1)$

$116: P_{2094} = (13, 1, 7, 1)$

$117: P_{2176} = (15, 6, 7, 1)$

$118: P_{2181} = (4, 7, 7, 1)$

$119: P_{2186} = (9, 7, 7, 1)$

$120: P_{2231} = (6, 10, 7, 1)$

$121: P_{2237} = (12, 10, 7, 1)$

$122: P_{2296} = (7, 14, 7, 1)$

$123: P_{2306} = (1, 15, 7, 1)$

$124: P_{2314} = (9, 15, 7, 1)$

$125: P_{2324} = (3, 0, 8, 1)$

$126: P_{2335} = (14, 0, 8, 1)$

$127: P_{2372} = (3, 3, 8, 1)$

$128: P_{2418} = (1, 6, 8, 1)$

$129: P_{2431} = (14, 6, 8, 1)$

$130: P_{2472} = (7, 9, 8, 1)$

$131: P_{2500} = (3, 11, 8, 1)$

$132: P_{2505} = (8, 11, 8, 1)$

$133: P_{2554} = (9, 14, 8, 1)$

$134: P_{2559} = (14, 14, 8, 1)$

$135: P_{2581} = (4, 0, 9, 1)$

$136: P_{2584} = (7, 0, 9, 1)$

$137: P_{2617} = (8, 2, 9, 1)$

$138: P_{2618} = (9, 2, 9, 1)$

$139: P_{2642} = (1, 4, 9, 1)$

$140: P_{2645} = (4, 4, 9, 1)$

$141: P_{2696} = (7, 7, 9, 1)$

$142: P_{2698} = (9, 7, 9, 1)$

$143: P_{2707} = (2, 8, 9, 1)$

$144: P_{2723} = (2, 9, 9, 1)$

$145: P_{2734} = (13, 9, 9, 1)$

$146: P_{2778} = (9, 12, 9, 1)$

$147: P_{2782} = (13, 12, 9, 1)$

$148: P_{2789} = (4, 13, 9, 1)$

$149: P_{2808} = (7, 14, 9, 1)$

$150: P_{2816} = (15, 14, 9, 1)$

$151: P_{2837} = (4, 0, 10, 1)$

$152: P_{2847} = (14, 0, 10, 1)$

$153: P_{2854} = (5, 1, 10, 1)$

$154: P_{2864} = (15, 1, 10, 1)$

$155: P_{2883} = (2, 3, 10, 1)$

$156: P_{2889} = (8, 3, 10, 1)$

$157: P_{2901} = (4, 4, 10, 1)$

$158: P_{2911} = (14, 4, 10, 1)$

$159: P_{2964} = (3, 8, 10, 1)$

$160: P_{2970} = (9, 8, 10, 1)$

$161: P_{2998} = (5, 10, 10, 1)$

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

Neighbor sets in the line intersection graph:
The surface has 225 points:
The points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$
1 : $P_3 = (0, 0, 0, 1)$
2 : $P_4 = (1, 1, 1, 1)$
3 : $P_5 = (1, 1, 0, 0)$
4 : $P_{20} = (1, 0, 1, 0)$
5 : $P_{36} = (1, 1, 1, 0)$
6 : $P_{117} = (2, 6, 1, 0)$
7 : $P_{128} = (13, 6, 1, 0)$
8 : $P_{140} = (9, 7, 1, 0)$
9 : $P_{143} = (12, 7, 1, 0)$
10 : $P_{182} = (3, 10, 1, 0)$
11 : $P_{187} = (8, 10, 1, 0)$

12 : $P_{200} = (5, 11, 1, 0)$
13 : $P_{210} = (15, 11, 1, 0)$
14 : $P_{217} = (6, 12, 1, 0)$
15 : $P_{225} = (14, 12, 1, 0)$
16 : $P_{231} = (4, 13, 1, 0)$
17 : $P_{234} = (7, 13, 1, 0)$
18 : $P_{275} = (1, 0, 0, 1)$
19 : $P_{291} = (1, 1, 0, 1)$
20 : $P_{312} = (6, 2, 0, 1)$
21 : $P_{320} = (14, 2, 0, 1)$
22 : $P_{326} = (4, 3, 0, 1)$
23 : $P_{330} = (8, 3, 0, 1)$

24 : $P_{340} = (2, 4, 0, 1)$
25 : $P_{351} = (13, 4, 0, 1)$
26 : $P_{363} = (9, 5, 0, 1)$
27 : $P_{369} = (15, 5, 0, 1)$
28 : $P_{405} = (3, 8, 0, 1)$
29 : $P_{416} = (14, 8, 0, 1)$
30 : $P_{422} = (4, 9, 0, 1)$
31 : $P_{425} = (7, 9, 0, 1)$
32 : $P_{438} = (4, 10, 0, 1)$
33 : $P_{448} = (14, 10, 0, 1)$
34 : $P_{452} = (2, 11, 0, 1)$
35 : $P_{459} = (9, 11, 0, 1)$

$36 : P_{507} = (9, 14, 0, 1)$
$37 : P_{510} = (12, 14, 0, 1)$
$38 : P_{516} = (2, 15, 0, 1)$
$39 : P_{519} = (5, 15, 0, 1)$
$40 : P_{531} = (1, 0, 1, 1)$
$41 : P_{582} = (5, 3, 1, 1)$
$42 : P_{589} = (12, 3, 1, 1)$
$43 : P_{615} = (6, 5, 1, 1)$
$44 : P_{617} = (8, 5, 1, 1)$
$45 : P_{670} = (13, 8, 1, 1)$
$46 : P_{672} = (15, 8, 1, 1)$
$47 : P_{693} = (4, 10, 1, 1)$
$48 : P_{703} = (14, 10, 1, 1)$
$49 : P_{707} = (2, 11, 1, 1)$
$50 : P_{714} = (9, 11, 1, 1)$
$51 : P_{772} = (3, 15, 1, 1)$
$52 : P_{776} = (7, 15, 1, 1)$
$53 : P_{791} = (6, 0, 2, 1)$
$54 : P_{799} = (14, 0, 2, 1)$
$55 : P_{826} = (9, 2, 2, 1)$
$56 : P_{829} = (12, 2, 2, 1)$
$57 : P_{842} = (9, 3, 2, 1)$
$58 : P_{854} = (5, 4, 2, 1)$
$59 : P_{855} = (6, 4, 2, 1)$
$60 : P_{883} = (2, 6, 2, 1)$
$61 : P_{887} = (6, 6, 2, 1)$
$62 : P_{931} = (2, 9, 2, 1)$
$63 : P_{932} = (3, 9, 2, 1)$
$64 : P_{991} = (14, 12, 2, 1)$
$65 : P_{995} = (2, 13, 2, 1)$
$66 : P_{1005} = (12, 13, 2, 1)$
$67 : P_{1010} = (1, 14, 2, 1)$
$68 : P_{1023} = (14, 14, 2, 1)$
$69 : P_{1045} = (4, 0, 3, 1)$
$70 : P_{1049} = (8, 0, 3, 1)$
$71 : P_{1079} = (6, 2, 3, 1)$
$72 : P_{1107} = (2, 4, 3, 1)$
$73 : P_{1109} = (4, 4, 3, 1)$
$74 : P_{1154} = (1, 7, 3, 1)$
$75 : P_{1157} = (4, 7, 3, 1)$
$76 : P_{1177} = (8, 8, 3, 1)$
$77 : P_{1220} = (3, 11, 3, 1)$
$78 : P_{1225} = (8, 11, 3, 1)$
$79 : P_{1299} = (2, 0, 4, 1)$
$80 : P_{1310} = (13, 0, 4, 1)$
$81 : P_{1330} = (1, 2, 4, 1)$
$82 : P_{1331} = (2, 2, 4, 1)$
$83 : P_{1367} = (6, 4, 4, 1)$
$84 : P_{1375} = (14, 4, 4, 1)$
$85 : P_{1391} = (14, 5, 4, 1)$
$86 : P_{1395} = (2, 6, 4, 1)$
$87 : P_{1413} = (4, 7, 4, 1)$
$88 : P_{1415} = (6, 7, 4, 1)$
$89 : P_{1449} = (8, 9, 4, 1)$

$90 : P_{1454} = (13, 9, 4, 1)$
$91 : P_{1509} = (4, 13, 4, 1)$
$92 : P_{1518} = (13, 13, 4, 1)$
$93 : P_{1525} = (4, 14, 4, 1)$
$94 : P_{1526} = (5, 14, 4, 1)$
$95 : P_{1562} = (9, 0, 5, 1)$
$96 : P_{1568} = (15, 0, 5, 1)$
$97 : P_{1630} = (13, 4, 5, 1)$
$98 : P_{1701} = (4, 9, 5, 1)$
$99 : P_{1706} = (9, 9, 5, 1)$
$100 : P_{1718} = (5, 10, 5, 1)$
$101 : P_{1728} = (15, 10, 5, 1)$
$102 : P_{1746} = (1, 12, 5, 1)$
$103 : P_{1754} = (9, 12, 5, 1)$
$104 : P_{1808} = (15, 15, 5, 1)$
$105 : P_{1834} = (9, 1, 6, 1)$
$106 : P_{1837} = (12, 1, 6, 1)$
$107 : P_{1879} = (6, 4, 6, 1)$
$108 : P_{1890} = (1, 5, 6, 1)$
$109 : P_{1891} = (2, 5, 6, 1)$
$110 : P_{1907} = (2, 6, 6, 1)$
$111 : P_{1919} = (14, 6, 6, 1)$
$112 : P_{1926} = (5, 7, 6, 1)$
$113 : P_{1976} = (7, 10, 6, 1)$
$114 : P_{1982} = (13, 10, 6, 1)$
$115 : P_{2083} = (2, 1, 7, 1)$
$116 : P_{2094} = (13, 1, 7, 1)$
$117 : P_{2176} = (15, 6, 7, 1)$
$118 : P_{2181} = (4, 7, 7, 1)$
$119 : P_{2186} = (9, 7, 7, 1)$
$120 : P_{2231} = (6, 10, 7, 1)$
$121 : P_{2237} = (12, 10, 7, 1)$
$122 : P_{2296} = (7, 14, 7, 1)$
$123 : P_{2306} = (1, 15, 7, 1)$
$124 : P_{2314} = (9, 15, 7, 1)$
$125 : P_{2324} = (3, 0, 8, 1)$
$126 : P_{2335} = (14, 0, 8, 1)$
$127 : P_{2372} = (3, 3, 8, 1)$
$128 : P_{2418} = (1, 6, 8, 1)$
$129 : P_{2431} = (14, 6, 8, 1)$
$130 : P_{2472} = (7, 9, 8, 1)$
$131 : P_{2500} = (3, 11, 8, 1)$
$132 : P_{2505} = (8, 11, 8, 1)$
$133 : P_{2554} = (9, 14, 8, 1)$
$134 : P_{2559} = (14, 14, 8, 1)$
$135 : P_{2581} = (4, 0, 9, 1)$
$136 : P_{2584} = (7, 0, 9, 1)$
$137 : P_{2617} = (8, 2, 9, 1)$
$138 : P_{2618} = (9, 2, 9, 1)$
$139 : P_{2642} = (1, 4, 9, 1)$
$140 : P_{2645} = (4, 4, 9, 1)$
$141 : P_{2696} = (7, 7, 9, 1)$
$142 : P_{2698} = (9, 7, 9, 1)$
$143 : P_{2707} = (2, 8, 9, 1)$

$144 : P_{2723} = (2, 9, 9, 1)$
$145 : P_{2734} = (13, 9, 9, 1)$
$146 : P_{2778} = (9, 12, 9, 1)$
$147 : P_{2782} = (13, 12, 9, 1)$
$148 : P_{2789} = (4, 13, 9, 1)$
$149 : P_{2808} = (7, 14, 9, 1)$
$150 : P_{2816} = (15, 14, 9, 1)$
$151 : P_{2837} = (4, 0, 10, 1)$
$152 : P_{2847} = (14, 0, 10, 1)$
$153 : P_{2854} = (5, 1, 10, 1)$
$154 : P_{2864} = (15, 1, 10, 1)$
$155 : P_{2883} = (2, 3, 10, 1)$
$156 : P_{2889} = (8, 3, 10, 1)$
$157 : P_{2901} = (4, 4, 10, 1)$
$158 : P_{2911} = (14, 4, 10, 1)$
$159 : P_{2964} = (3, 8, 10, 1)$
$160 : P_{2970} = (9, 8, 10, 1)$
$161 : P_{2998} = (5, 10, 10, 1)$
$162 : P_{3008} = (15, 10, 10, 1)$
$163 : P_{3061} = (4, 14, 10, 1)$
$164 : P_{3071} = (14, 14, 10, 1)$
$165 : P_{3091} = (2, 0, 11, 1)$
$166 : P_{3098} = (9, 0, 11, 1)$
$167 : P_{3108} = (3, 1, 11, 1)$
$168 : P_{3113} = (8, 1, 11, 1)$
$169 : P_{3123} = (2, 2, 11, 1)$
$170 : P_{3130} = (9, 2, 11, 1)$
$171 : P_{3173} = (4, 5, 11, 1)$
$172 : P_{3184} = (15, 5, 11, 1)$
$173 : P_{3235} = (2, 9, 11, 1)$
$174 : P_{3242} = (9, 9, 11, 1)$
$175 : P_{3268} = (3, 11, 11, 1)$
$176 : P_{3273} = (8, 11, 11, 1)$
$177 : P_{3334} = (5, 15, 11, 1)$
$178 : P_{3343} = (14, 15, 11, 1)$
$179 : P_{3365} = (4, 1, 12, 1)$
$180 : P_{3368} = (7, 1, 12, 1)$
$181 : P_{3389} = (12, 2, 12, 1)$
$182 : P_{3394} = (1, 3, 12, 1)$
$183 : P_{3407} = (14, 3, 12, 1)$
$184 : P_{3527} = (6, 11, 12, 1)$
$185 : P_{3534} = (13, 11, 12, 1)$
$186 : P_{3546} = (9, 12, 12, 1)$
$187 : P_{3551} = (14, 12, 12, 1)$
$188 : P_{3556} = (3, 13, 12, 1)$
$189 : P_{3623} = (6, 1, 13, 1)$
$190 : P_{3631} = (14, 1, 13, 1)$
$191 : P_{3730} = (1, 8, 13, 1)$
$192 : P_{3733} = (4, 8, 13, 1)$
$193 : P_{3758} = (13, 9, 13, 1)$
$194 : P_{3784} = (7, 11, 13, 1)$
$195 : P_{3789} = (12, 11, 13, 1)$
$196 : P_{3801} = (8, 12, 13, 1)$
$197 : P_{3811} = (2, 13, 13, 1)$

$198: P_{3813} = (4, 13, 13, 1)$

$199: P_{3866} = (9, 0, 14, 1)$

$200: P_{3869} = (12, 0, 14, 1)$

$201: P_{3892} = (3, 2, 14, 1)$

$202: P_{3901} = (12, 2, 14, 1)$

$203: P_{3935} = (14, 4, 14, 1)$

$204: P_{3936} = (15, 4, 14, 1)$

$205: P_{3960} = (7, 6, 14, 1)$

$206: P_{3967} = (14, 6, 14, 1)$

$207: P_{3978} = (9, 7, 14, 1)$

$208: P_{4002} = (1, 9, 14, 1)$

$209: P_{4010} = (9, 9, 14, 1)$

$210: P_{4061} = (12, 12, 14, 1)$

$211: P_{4063} = (14, 12, 14, 1)$

$212: P_{4085} = (4, 14, 14, 1)$

$213: P_{4088} = (7, 14, 14, 1)$

$214: P_{4101} = (4, 15, 14, 1)$

$215: P_{4115} = (2, 0, 15, 1)$

$216: P_{4118} = (5, 0, 15, 1)$

$217: P_{4147} = (2, 2, 15, 1)$

$218: P_{4159} = (14, 2, 15, 1)$

$219: P_{4198} = (5, 5, 15, 1)$

$220: P_{4278} = (5, 10, 15, 1)$

$221: P_{4288} = (15, 10, 15, 1)$

$222: P_{4322} = (1, 13, 15, 1)$

$223: P_{4323} = (2, 13, 15, 1)$

$224: P_{4349} = (12, 14, 15, 1)$