Rank-65858 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

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

(1, 1, 1, 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 287449638

General information

Number of lines	0
Number of points	273
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	273
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0^{273}

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

$0: P_4 = (1,1,1,1)$
$1: P_{275} = (1,0,0,1)$
$2: P_{284} = (10,0,0,1)$
$3: P_{285} = (11,0,0,1)$
$4: P_{290} = (0,1,0,1)$
$5: P_{291} = (1,1,0,1)$
$6: P_{434} = (0,10,0,1)$
$7: P_{444} = (10,10,0,1)$
$8: P_{450} = (0,11,0,1)$
$9: P_{461} = (11,11,0,1)$
$10: P_{530} = (0,0,1,1)$
$11: P_{531} = (1,0,1,1)$
$12: P_{546} = (0,1,1,1)$
$13: P_{568} = (7,2,1,1)$
$14: P_{591} = (14,3,1,1)$
$15: P_{605} = (12,4,1,1)$
$16: P_{611} = (2,5,1,1)$
$17: P_{640} = (15,6,1,1)$
$18: P_{646} = (5,7,1,1)$
$19: P_{661} = (4,8,1,1)$
$20: P_{679} = (6,9,1,1)$
$21: P_{729} = (8,12,1,1)$
$22: P_{740} = (3,13,1,1)$
$23: P_{766} = (13,14,1,1)$
$24: P_{778} = (9,15,1,1)$
$25: P_{816} = (15,1,2,1)$
$26: P_{838} = (5,3,2,1)$
$27: P_{871} = (6,5,2,1)$
$28: P_{879} = (14,5,2,1)$
$29: P_{880} = (15,5,2,1)$
$30: P_{884} = (3,6,2,1)$
$31: P_{889} = (8,6,2,1)$
$32: P_{896} = (15,6,2,1)$
$33: P_{927} = (14,8,2,1)$
$34: P_{935} = (6,9,2,1)$
$35: P_{950} = (5,10,2,1)$
$36: P_{966} = (5,11,2,1)$
$37: P_{1010} = (1,14,2,1)$
$38: P_{1015} = (6,14,2,1)$
$39: P_{1020} = (11,14,2,1)$
$40: P_{1034} = (9,15,2,1)$
$41: P_{1035} = (10,15,2,1)$
$42: P_{1039} = (14,15,2,1)$
$43: P_{1063} = (6,1,3,1)$
$44: P_{1086} = (13,2,3,1)$
$45: P_{1144} = (7,6,3,1)$
$46: P_{1150} = (13,6,3,1)$
$47: P_{1152} = (15,6,3,1)$
$48: P_{1154} = (1,7,3,1)$
$49: P_{1161} = (8,7,3,1)$
$50: P_{1166} = (13,7,3,1)$
$51: P_{1184} = (15,8,3,1)$
$52: P_{1191} = (6,9,3,1)$
$53: P_{1208} = (7,10,3,1)$

$54: P_{1223} = (6, 11, 3, 1)$
$55: P_{1259} = (10, 13, 3, 1)$
$56: P_{1260} = (11, 13, 3, 1)$
$57: P_{1264} = (15, 13, 3, 1)$
$58: P_{1283} = (2, 15, 3, 1)$
$59: P_{1288} = (7, 15, 3, 1)$
$60: P_{1290} = (9, 15, 3, 1)$
$61: P_{1316} = (3, 1, 4, 1)$
$62: P_{1330} = (1, 2, 4, 1)$
$63: P_{1339} = (10, 2, 4, 1)$
$64: P_{1342} = (13, 2, 4, 1)$
$65: P_{1347} = (2, 3, 4, 1)$
$66: P_{1356} = (11, 3, 4, 1)$
$67: P_{1359} = (14, 3, 4, 1)$
$68: P_{1385} = (8, 5, 4, 1)$
$69: P_{1427} = (2, 8, 4, 1)$
$70: P_{1428} = (3, 8, 4, 1)$
$71: P_{1438} = (13, 8, 4, 1)$
$72: P_{1465} = (8, 10, 4, 1)$
$73: P_{1481} = (8, 11, 4, 1)$
$74: P_{1508} = (3, 13, 4, 1)$
$75: P_{1510} = (5, 13, 4, 1)$
$76: P_{1520} = (15, 13, 4, 1)$
$77: P_{1534} = (13, 14, 4, 1)$
$78: P_{1539} = (2, 15, 4, 1)$
$79: P_{1582} = (13, 1, 5, 1)$
$80: P_{1605} = (4, 3, 5, 1)$
$81: P_{1613} = (12, 3, 5, 1)$
$82: P_{1615} = (14, 3, 5, 1)$
$83: P_{1624} = (7, 4, 5, 1)$
$84: P_{1668} = (3, 7, 5, 1)$
$85: P_{1675} = (10, 7, 5, 1)$
$86: P_{1676} = (11, 7, 5, 1)$
$87: P_{1726} = (13, 10, 5, 1)$
$88: P_{1741} = (12, 11, 5, 1)$
$89: P_{1746} = (1, 12, 5, 1)$
$90: P_{1752} = (7, 12, 5, 1)$
$91: P_{1760} = (15, 12, 5, 1)$
$92: P_{1764} = (3, 13, 5, 1)$
$93: P_{1768} = (7, 13, 5, 1)$
$94: P_{1773} = (12, 13, 5, 1)$
$95: P_{1790} = (13, 14, 5, 1)$
$96: P_{1796} = (3, 15, 5, 1)$
$97: P_{1829} = (4, 1, 6, 1)$
$98: P_{1878} = (5, 4, 6, 1)$
$99: P_{1882} = (9, 4, 6, 1)$
$100: P_{1887} = (14, 4, 6, 1)$
$101: P_{1890} = (1, 5, 6, 1)$
$102: P_{1898} = (9, 5, 6, 1)$
$103: P_{1900} = (11, 5, 6, 1)$
$104: P_{1930} = (9, 7, 6, 1)$
$105: P_{1965} = (12, 9, 6, 1)$
$106: P_{1966} = (13, 9, 6, 1)$
$107: P_{1967} = (14, 9, 6, 1)$
$108: P_{1973} = (4, 10, 6, 1)$
$109: P_{1999} = (14, 11, 6, 1)$
$110: P_{2006} = (5, 12, 6, 1)$
$111: P_{2021} = (4, 13, 6, 1)$
$112: P_{2038} = (5, 14, 6, 1)$
$113: P_{2040} = (7, 14, 6, 1)$
$114: P_{2043} = (10, 14, 6, 1)$
$115: P_{2095} = (14, 1, 7, 1)$
$116: P_{2101} = (4, 2, 7, 1)$
$117: P_{2109} = (12, 2, 7, 1)$
$118: P_{2110} = (13, 2, 7, 1)$
$119: P_{2135} = (6, 4, 7, 1)$
$120: P_{2139} = (10, 4, 7, 1)$
$121: P_{2144} = (15, 4, 7, 1)$
$122: P_{2163} = (2, 6, 7, 1)$
$123: P_{2239} = (14, 10, 7, 1)$
$124: P_{2245} = (4, 11, 7, 1)$
$125: P_{2271} = (14, 12, 7, 1)$
$126: P_{2288} = (15, 13, 7, 1)$
$127: P_{2291} = (2, 14, 7, 1)$
$128: P_{2293} = (4, 14, 7, 1)$
$129: P_{2304} = (15, 14, 7, 1)$
$130: P_{2306} = (1, 15, 7, 1)$
$131: P_{2307} = (2, 15, 7, 1)$
$132: P_{2316} = (11, 15, 7, 1)$
$133: P_{2344} = (7, 1, 8, 1)$
$134: P_{2360} = (7, 2, 8, 1)$
$135: P_{2374} = (5, 3, 8, 1)$
$136: P_{2403} = (2, 5, 8, 1)$
$137: P_{2407} = (6, 5, 8, 1)$
$138: P_{2410} = (9, 5, 8, 1)$
$139: P_{2418} = (1, 6, 8, 1)$
$140: P_{2420} = (3, 6, 8, 1)$
$141: P_{2429} = (12, 6, 8, 1)$
$142: P_{2438} = (5, 7, 8, 1)$
$143: P_{2439} = (6, 7, 8, 1)$
$144: P_{2445} = (12, 7, 8, 1)$
$145: P_{2477} = (12, 9, 8, 1)$
$146: P_{2487} = (6, 10, 8, 1)$
$147: P_{2504} = (7, 11, 8, 1)$
$148: P_{2518} = (5, 12, 8, 1)$
$149: P_{2523} = (10, 12, 8, 1)$
$150: P_{2524} = (11, 12, 8, 1)$
$151: P_{2598} = (5, 1, 9, 1)$
$152: P_{2616} = (7, 2, 9, 1)$
$153: P_{2629} = (4, 3, 9, 1)$
$154: P_{2642} = (1, 4, 9, 1)$
$155: P_{2648} = (7, 4, 9, 1)$
$156: P_{2652} = (11, 4, 9, 1)$
$157: P_{2659} = (2, 5, 9, 1)$
$158: P_{2661} = (4, 5, 9, 1)$
$159: P_{2667} = (10, 5, 9, 1)$
$160: P_{2692} = (3, 7, 9, 1)$
$161: P_{2694} = (5, 7, 9, 1)$

$162: P_{2697} = (8, 7, 9, 1)$
$163: P_{2720} = (15, 8, 9, 1)$
$164: P_{2752} = (15, 10, 9, 1)$
$165: P_{2768} = (15, 11, 9, 1)$
$166: P_{2821} = (4, 15, 9, 1)$
$167: P_{2822} = (5, 15, 9, 1)$
$168: P_{2824} = (7, 15, 9, 1)$
$169: P_{2833} = (0, 0, 10, 1)$
$170: P_{2843} = (10, 0, 10, 1)$
$171: P_{2877} = (12, 2, 10, 1)$
$172: P_{2886} = (5, 3, 10, 1)$
$173: P_{2906} = (9, 4, 10, 1)$
$174: P_{2919} = (6, 5, 10, 1)$
$175: P_{2932} = (3, 6, 10, 1)$
$176: P_{2953} = (8, 7, 10, 1)$
$177: P_{2976} = (15, 8, 10, 1)$
$178: P_{2990} = (13, 9, 10, 1)$
$179: P_{2993} = (0, 10, 10, 1)$
$180: P_{3003} = (10, 10, 10, 1)$
$181: P_{3039} = (14, 12, 10, 1)$
$182: P_{3045} = (4, 13, 10, 1)$
$183: P_{3059} = (2, 14, 10, 1)$
$184: P_{3080} = (7, 15, 10, 1)$
$185: P_{3089} = (0, 0, 11, 1)$
$186: P_{3100} = (11, 0, 11, 1)$
$187: P_{3125} = (4, 2, 11, 1)$
$188: P_{3149} = (12, 3, 11, 1)$
$189: P_{3159} = (6, 4, 11, 1)$
$190: P_{3177} = (8, 5, 11, 1)$
$191: P_{3187} = (2, 6, 11, 1)$
$192: P_{3210} = (9, 7, 11, 1)$
$193: P_{3230} = (13, 8, 11, 1)$
$194: P_{3247} = (14, 9, 11, 1)$
$195: P_{3265} = (0, 11, 11, 1)$
$196: P_{3276} = (11, 11, 11, 1)$
$197: P_{3296} = (15, 12, 11, 1)$
$198: P_{3302} = (5, 13, 11, 1)$
$199: P_{3320} = (7, 14, 11, 1)$
$200: P_{3332} = (3, 15, 11, 1)$
$201: P_{3363} = (2, 1, 12, 1)$
$202: P_{3380} = (3, 2, 12, 1)$
$203: P_{3381} = (4, 2, 12, 1)$
$204: P_{3386} = (9, 2, 12, 1)$
$205: P_{3394} = (1, 3, 12, 1)$
$206: P_{3397} = (4, 3, 12, 1)$
$207: P_{3403} = (10, 3, 12, 1)$
$208: P_{3415} = (6, 4, 12, 1)$
$209: P_{3416} = (7, 4, 12, 1)$
$210: P_{3418} = (9, 4, 12, 1)$
$211: P_{3443} = (2, 6, 12, 1)$
$212: P_{3460} = (3, 7, 12, 1)$
$213: P_{3492} = (3, 9, 12, 1)$
$214: P_{3500} = (11, 9, 12, 1)$
$215: P_{3502} = (13, 9, 12, 1)$
$216: P_{3514} = (9, 10, 12, 1)$
$217: P_{3523} = (2, 11, 12, 1)$
$218: P_{3557} = (4, 13, 12, 1)$
$219: P_{3626} = (9, 1, 13, 1)$
$220: P_{3641} = (8, 2, 13, 1)$
$221: P_{3644} = (11, 2, 13, 1)$
$222: P_{3645} = (12, 2, 13, 1)$
$223: P_{3705} = (8, 6, 13, 1)$
$224: P_{3722} = (9, 7, 13, 1)$
$225: P_{3730} = (1, 8, 13, 1)$
$226: P_{3739} = (10, 8, 13, 1)$
$227: P_{3743} = (14, 8, 13, 1)$
$228: P_{3747} = (2, 9, 13, 1)$
$229: P_{3753} = (8, 9, 13, 1)$
$230: P_{3759} = (14, 9, 13, 1)$
$231: P_{3763} = (2, 10, 13, 1)$
$232: P_{3786} = (9, 11, 13, 1)$
$233: P_{3807} = (14, 12, 13, 1)$
$234: P_{3827} = (2, 14, 13, 1)$
$235: P_{3831} = (6, 14, 13, 1)$
$236: P_{3832} = (7, 14, 13, 1)$
$237: P_{3881} = (8, 1, 14, 1)$
$238: P_{3913} = (8, 3, 14, 1)$
$239: P_{3914} = (9, 3, 14, 1)$
$240: P_{3917} = (12, 3, 14, 1)$
$241: P_{3933} = (12, 4, 14, 1)$
$242: P_{3946} = (9, 5, 14, 1)$
$243: P_{3989} = (4, 8, 14, 1)$
$244: P_{3994} = (9, 8, 14, 1)$
$245: P_{3996} = (11, 8, 14, 1)$
$246: P_{4002} = (1, 9, 14, 1)$
$247: P_{4011} = (10, 9, 14, 1)$
$248: P_{4013} = (12, 9, 14, 1)$
$249: P_{4020} = (3, 10, 14, 1)$
$250: P_{4036} = (3, 11, 14, 1)$
$251: P_{4054} = (5, 12, 14, 1)$
$252: P_{4057} = (8, 12, 14, 1)$
$253: P_{4064} = (15, 12, 14, 1)$
$254: P_{4100} = (3, 15, 14, 1)$
$255: P_{4141} = (12, 1, 15, 1)$
$256: P_{4189} = (12, 4, 15, 1)$
$257: P_{4201} = (8, 5, 15, 1)$
$258: P_{4217} = (8, 6, 15, 1)$
$259: P_{4219} = (10, 6, 15, 1)$
$260: P_{4220} = (11, 6, 15, 1)$
$261: P_{4245} = (4, 8, 15, 1)$
$262: P_{4254} = (13, 8, 15, 1)$
$263: P_{4255} = (14, 8, 15, 1)$
$264: P_{4285} = (12, 10, 15, 1)$
$265: P_{4302} = (13, 11, 15, 1)$
$266: P_{4311} = (6, 12, 15, 1)$
$267: P_{4313} = (8, 12, 15, 1)$
$268: P_{4318} = (13, 12, 15, 1)$
$269: P_{4322} = (1, 13, 15, 1)$

270 : $P_{4326} = (5, 13, 15, 1)$
271 : $P_{4327} = (6, 13, 15, 1)$
272 : $P_{4343} = (6, 14, 15, 1)$

Line Intersection Graph

Neighbor sets in the line intersection graph:
The surface has 273 points:
The points on the surface are:

0 : $P_{4} = (1, 1, 1, 1)$
1 : $P_{275} = (1, 0, 0, 1)$
2 : $P_{284} = (10, 0, 0, 1)$
3 : $P_{285} = (11, 0, 0, 1)$
4 : $P_{290} = (0, 1, 0, 1)$
5 : $P_{291} = (1, 1, 0, 1)$
6 : $P_{434} = (0, 10, 0, 1)$
7 : $P_{444} = (10, 10, 0, 1)$
8 : $P_{450} = (0, 11, 0, 1)$
9 : $P_{461} = (11, 11, 0, 1)$
10 : $P_{530} = (0, 0, 1, 1)$
11 : $P_{531} = (1, 0, 1, 1)$
12 : $P_{546} = (0, 1, 1, 1)$
13 : $P_{568} = (7, 2, 1, 1)$
14 : $P_{591} = (14, 3, 1, 1)$
15 : $P_{605} = (12, 4, 1, 1)$
16 : $P_{611} = (2, 5, 1, 1)$
17 : $P_{640} = (15, 6, 1, 1)$
18 : $P_{646} = (5, 7, 1, 1)$
19 : $P_{661} = (4, 8, 1, 1)$
20 : $P_{679} = (6, 9, 1, 1)$
21 : $P_{729} = (8, 12, 1, 1)$
22 : $P_{740} = (3, 13, 1, 1)$
23 : $P_{766} = (13, 14, 1, 1)$
24 : $P_{778} = (9, 15, 1, 1)$
25 : $P_{816} = (15, 1, 2, 1)$
26 : $P_{838} = (5, 3, 2, 1)$
27 : $P_{871} = (6, 5, 2, 1)$
28 : $P_{879} = (14, 5, 2, 1)$
29 : $P_{880} = (15, 5, 2, 1)$
30 : $P_{884} = (3, 6, 2, 1)$
31 : $P_{889} = (8, 6, 2, 1)$
32 : $P_{896} = (15, 6, 2, 1)$
33 : $P_{927} = (14, 8, 2, 1)$
34 : $P_{935} = (6, 9, 2, 1)$
35 : $P_{950} = (5, 10, 2, 1)$
36 : $P_{966} = (5, 11, 2, 1)$
37 : $P_{1010} = (1, 14, 2, 1)$
38 : $P_{1015} = (6, 14, 2, 1)$
39 : $P_{1020} = (11, 14, 2, 1)$
40 : $P_{1034} = (9, 15, 2, 1)$
41 : $P_{1035} = (10, 15, 2, 1)$
42 : $P_{1039} = (14, 15, 2, 1)$
43 : $P_{1063} = (6, 1, 3, 1)$
44 : $P_{1086} = (13, 2, 3, 1)$
45 : $P_{1144} = (7, 6, 3, 1)$
46 : $P_{1150} = (13, 6, 3, 1)$
47 : $P_{1152} = (15, 6, 3, 1)$
48 : $P_{1154} = (1, 7, 3, 1)$
49 : $P_{1161} = (8, 7, 3, 1)$
50 : $P_{1166} = (13, 7, 3, 1)$
51 : $P_{1184} = (15, 8, 3, 1)$
52 : $P_{1191} = (6, 9, 3, 1)$
53 : $P_{1208} = (7, 10, 3, 1)$
54 : $P_{1223} = (6, 11, 3, 1)$
55 : $P_{1259} = (10, 13, 3, 1)$
56 : $P_{1260} = (11, 13, 3, 1)$
57 : $P_{1264} = (15, 13, 3, 1)$
58 : $P_{1283} = (2, 15, 3, 1)$
59 : $P_{1288} = (7, 15, 3, 1)$
60 : $P_{1290} = (9, 15, 3, 1)$
61 : $P_{1316} = (3, 1, 4, 1)$
62 : $P_{1330} = (1, 2, 4, 1)$
63 : $P_{1339} = (10, 2, 4, 1)$
64 : $P_{1342} = (13, 2, 4, 1)$
65 : $P_{1347} = (2, 3, 4, 1)$
66 : $P_{1356} = (11, 3, 4, 1)$
67 : $P_{1359} = (14, 3, 4, 1)$
68 : $P_{1385} = (8, 5, 4, 1)$
69 : $P_{1427} = (2, 8, 4, 1)$
70 : $P_{1428} = (3, 8, 4, 1)$
71 : $P_{1438} = (13, 8, 4, 1)$
72 : $P_{1465} = (8, 10, 4, 1)$
73 : $P_{1481} = (8, 11, 4, 1)$
74 : $P_{1508} = (3, 13, 4, 1)$
75 : $P_{1510} = (5, 13, 4, 1)$
76 : $P_{1520} = (15, 13, 4, 1)$
77 : $P_{1534} = (13, 14, 4, 1)$
78 : $P_{1539} = (2, 15, 4, 1)$
79 : $P_{1582} = (13, 1, 5, 1)$
80 : $P_{1605} = (4, 3, 5, 1)$
81 : $P_{1613} = (12, 3, 5, 1)$
82 : $P_{1615} = (14, 3, 5, 1)$
83 : $P_{1624} = (7, 4, 5, 1)$
84 : $P_{1668} = (3, 7, 5, 1)$
85 : $P_{1675} = (10, 7, 5, 1)$
86 : $P_{1676} = (11, 7, 5, 1)$
87 : $P_{1726} = (13, 10, 5, 1)$
88 : $P_{1741} = (12, 11, 5, 1)$
89 : $P_{1746} = (1, 12, 5, 1)$
90 : $P_{1752} = (7, 12, 5, 1)$
91 : $P_{1760} = (15, 12, 5, 1)$
92 : $P_{1764} = (3, 13, 5, 1)$
93 : $P_{1768} = (7, 13, 5, 1)$
94 : $P_{1773} = (12, 13, 5, 1)$
95 : $P_{1790} = (13, 14, 5, 1)$
96 : $P_{1796} = (3, 15, 5, 1)$
97 : $P_{1829} = (4, 1, 6, 1)$
98 : $P_{1878} = (5, 4, 6, 1)$
99 : $P_{1882} = (9, 4, 6, 1)$
100 : $P_{1887} = (14, 4, 6, 1)$
101 : $P_{1890} = (1, 5, 6, 1)$
102 : $P_{1898} = (9, 5, 6, 1)$
103 : $P_{1900} = (11, 5, 6, 1)$
104 : $P_{1930} = (9, 7, 6, 1)$
105 : $P_{1965} = (12, 9, 6, 1)$
106 : $P_{1966} = (13, 9, 6, 1)$
107 : $P_{1967} = (14, 9, 6, 1)$
108 : $P_{1973} = (4, 10, 6, 1)$
109 : $P_{1999} = (14, 11, 6, 1)$
110 : $P_{2006} = (5, 12, 6, 1)$
111 : $P_{2021} = (4, 13, 6, 1)$
112 : $P_{2038} = (5, 14, 6, 1)$
113 : $P_{2040} = (7, 14, 6, 1)$
114 : $P_{2043} = (10, 14, 6, 1)$
115 : $P_{2095} = (14, 1, 7, 1)$
116 : $P_{2101} = (4, 2, 7, 1)$
117 : $P_{2109} = (12, 2, 7, 1)$
118 : $P_{2110} = (13, 2, 7, 1)$
119 : $P_{2135} = (6, 4, 7, 1)$
120 : $P_{2139} = (10, 4, 7, 1)$
121 : $P_{2144} = (15, 4, 7, 1)$
122 : $P_{2163} = (2, 6, 7, 1)$
123 : $P_{2239} = (14, 10, 7, 1)$
124 : $P_{2245} = (4, 11, 7, 1)$
125 : $P_{2271} = (14, 12, 7, 1)$

126 : $P_{2288} = (15, 13, 7, 1)$
127 : $P_{2291} = (2, 14, 7, 1)$
128 : $P_{2293} = (4, 14, 7, 1)$
129 : $P_{2304} = (15, 14, 7, 1)$
130 : $P_{2306} = (1, 15, 7, 1)$
131 : $P_{2307} = (2, 15, 7, 1)$
132 : $P_{2316} = (11, 15, 7, 1)$
133 : $P_{2344} = (7, 1, 8, 1)$
134 : $P_{2360} = (7, 2, 8, 1)$
135 : $P_{2374} = (5, 3, 8, 1)$
136 : $P_{2403} = (2, 5, 8, 1)$
137 : $P_{2407} = (6, 5, 8, 1)$
138 : $P_{2410} = (9, 5, 8, 1)$
139 : $P_{2418} = (1, 6, 8, 1)$
140 : $P_{2420} = (3, 6, 8, 1)$
141 : $P_{2429} = (12, 6, 8, 1)$
142 : $P_{2438} = (5, 7, 8, 1)$
143 : $P_{2439} = (6, 7, 8, 1)$
144 : $P_{2445} = (12, 7, 8, 1)$
145 : $P_{2477} = (12, 9, 8, 1)$
146 : $P_{2487} = (6, 10, 8, 1)$
147 : $P_{2504} = (7, 11, 8, 1)$
148 : $P_{2518} = (5, 12, 8, 1)$
149 : $P_{2523} = (10, 12, 8, 1)$
150 : $P_{2524} = (11, 12, 8, 1)$
151 : $P_{2598} = (5, 1, 9, 1)$
152 : $P_{2616} = (7, 2, 9, 1)$
153 : $P_{2629} = (4, 3, 9, 1)$
154 : $P_{2642} = (1, 4, 9, 1)$
155 : $P_{2648} = (7, 4, 9, 1)$
156 : $P_{2652} = (11, 4, 9, 1)$
157 : $P_{2659} = (2, 5, 9, 1)$
158 : $P_{2661} = (4, 5, 9, 1)$
159 : $P_{2667} = (10, 5, 9, 1)$
160 : $P_{2692} = (3, 7, 9, 1)$
161 : $P_{2694} = (5, 7, 9, 1)$
162 : $P_{2697} = (8, 7, 9, 1)$
163 : $P_{2720} = (15, 8, 9, 1)$
164 : $P_{2752} = (15, 10, 9, 1)$
165 : $P_{2768} = (15, 11, 9, 1)$
166 : $P_{2821} = (4, 15, 9, 1)$
167 : $P_{2822} = (5, 15, 9, 1)$
168 : $P_{2824} = (7, 15, 9, 1)$
169 : $P_{2833} = (0, 0, 10, 1)$
170 : $P_{2843} = (10, 0, 10, 1)$
171 : $P_{2877} = (12, 2, 10, 1)$
172 : $P_{2886} = (5, 3, 10, 1)$
173 : $P_{2906} = (9, 4, 10, 1)$
174 : $P_{2919} = (6, 5, 10, 1)$
175 : $P_{2932} = (3, 6, 10, 1)$
176 : $P_{2953} = (8, 7, 10, 1)$
177 : $P_{2976} = (15, 8, 10, 1)$
178 : $P_{2990} = (13, 9, 10, 1)$
179 : $P_{2993} = (0, 10, 10, 1)$
180 : $P_{3003} = (10, 10, 10, 1)$
181 : $P_{3039} = (14, 12, 10, 1)$
182 : $P_{3045} = (4, 13, 10, 1)$
183 : $P_{3059} = (2, 14, 10, 1)$
184 : $P_{3080} = (7, 15, 10, 1)$
185 : $P_{3089} = (0, 0, 11, 1)$
186 : $P_{3100} = (11, 0, 11, 1)$
187 : $P_{3125} = (4, 2, 11, 1)$
188 : $P_{3149} = (12, 3, 11, 1)$
189 : $P_{3159} = (6, 4, 11, 1)$
190 : $P_{3177} = (8, 5, 11, 1)$
191 : $P_{3187} = (2, 6, 11, 1)$
192 : $P_{3210} = (9, 7, 11, 1)$
193 : $P_{3230} = (13, 8, 11, 1)$
194 : $P_{3247} = (14, 9, 11, 1)$
195 : $P_{3265} = (0, 11, 11, 1)$
196 : $P_{3276} = (11, 11, 11, 1)$
197 : $P_{3296} = (15, 12, 11, 1)$
198 : $P_{3302} = (5, 13, 11, 1)$
199 : $P_{3320} = (7, 14, 11, 1)$
200 : $P_{3332} = (3, 15, 11, 1)$
201 : $P_{3363} = (2, 1, 12, 1)$
202 : $P_{3380} = (3, 2, 12, 1)$
203 : $P_{3381} = (4, 2, 12, 1)$
204 : $P_{3386} = (9, 2, 12, 1)$
205 : $P_{3394} = (1, 3, 12, 1)$
206 : $P_{3397} = (4, 3, 12, 1)$
207 : $P_{3403} = (10, 3, 12, 1)$
208 : $P_{3415} = (6, 4, 12, 1)$
209 : $P_{3416} = (7, 4, 12, 1)$
210 : $P_{3418} = (9, 4, 12, 1)$
211 : $P_{3443} = (2, 6, 12, 1)$
212 : $P_{3460} = (3, 7, 12, 1)$
213 : $P_{3492} = (3, 9, 12, 1)$
214 : $P_{3500} = (11, 9, 12, 1)$
215 : $P_{3502} = (13, 9, 12, 1)$
216 : $P_{3514} = (9, 10, 12, 1)$
217 : $P_{3523} = (2, 11, 12, 1)$
218 : $P_{3557} = (4, 13, 12, 1)$
219 : $P_{3626} = (9, 1, 13, 1)$
220 : $P_{3641} = (8, 2, 13, 1)$
221 : $P_{3644} = (11, 2, 13, 1)$
222 : $P_{3645} = (12, 2, 13, 1)$
223 : $P_{3705} = (8, 6, 13, 1)$
224 : $P_{3722} = (9, 7, 13, 1)$
225 : $P_{3730} = (1, 8, 13, 1)$
226 : $P_{3739} = (10, 8, 13, 1)$
227 : $P_{3743} = (14, 8, 13, 1)$
228 : $P_{3747} = (2, 9, 13, 1)$
229 : $P_{3753} = (8, 9, 13, 1)$
230 : $P_{3759} = (14, 9, 13, 1)$
231 : $P_{3763} = (2, 10, 13, 1)$
232 : $P_{3786} = (9, 11, 13, 1)$
233 : $P_{3807} = (14, 12, 13, 1)$
234 : $P_{3827} = (2, 14, 13, 1)$
235 : $P_{3831} = (6, 14, 13, 1)$
236 : $P_{3832} = (7, 14, 13, 1)$
237 : $P_{3881} = (8, 1, 14, 1)$
238 : $P_{3913} = (8, 3, 14, 1)$
239 : $P_{3914} = (9, 3, 14, 1)$
240 : $P_{3917} = (12, 3, 14, 1)$
241 : $P_{3933} = (12, 4, 14, 1)$
242 : $P_{3946} = (9, 5, 14, 1)$
243 : $P_{3989} = (4, 8, 14, 1)$
244 : $P_{3994} = (9, 8, 14, 1)$
245 : $P_{3996} = (11, 8, 14, 1)$
246 : $P_{4002} = (1, 9, 14, 1)$
247 : $P_{4011} = (10, 9, 14, 1)$
248 : $P_{4013} = (12, 9, 14, 1)$
249 : $P_{4020} = (3, 10, 14, 1)$
250 : $P_{4036} = (3, 11, 14, 1)$
251 : $P_{4054} = (5, 12, 14, 1)$
252 : $P_{4057} = (8, 12, 14, 1)$
253 : $P_{4064} = (15, 12, 14, 1)$
254 : $P_{4100} = (3, 15, 14, 1)$
255 : $P_{4141} = (12, 1, 15, 1)$
256 : $P_{4189} = (12, 4, 15, 1)$
257 : $P_{4201} = (8, 5, 15, 1)$
258 : $P_{4217} = (8, 6, 15, 1)$
259 : $P_{4219} = (10, 6, 15, 1)$
260 : $P_{4220} = (11, 6, 15, 1)$
261 : $P_{4245} = (4, 8, 15, 1)$
262 : $P_{4254} = (13, 8, 15, 1)$
263 : $P_{4255} = (14, 8, 15, 1)$
264 : $P_{4285} = (12, 10, 15, 1)$
265 : $P_{4302} = (13, 11, 15, 1)$
266 : $P_{4311} = (6, 12, 15, 1)$
267 : $P_{4313} = (8, 12, 15, 1)$
268 : $P_{4318} = (13, 12, 15, 1)$
269 : $P_{4322} = (1, 13, 15, 1)$
270 : $P_{4326} = (5, 13, 15, 1)$
271 : $P_{4327} = (6, 13, 15, 1)$
272 : $P_{4343} = (6, 14, 15, 1)$