

Rank-65839 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(16) is 287384085

General information

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|----------------------------|------------------------------|
| Number of lines | 7 |
| Number of points | 305 |
| Number of singular points | 2 |
| Number of Eckardt points | 0 |
| Number of double points | 3 |
| Number of single points | 105 |
| Number of points off lines | 195 |
| Number of Hesse planes | 0 |
| Number of axes | 0 |
| Type of points on lines | 17^7 |
| Type of lines on points | $4^2, 2^3, 1^{105}, 0^{195}$ |

Singular Points

The surface has 2 singular points:

$$0 : P_{14} = \mathbf{P}(\delta^{10}, 1, 0, 0) = \mathbf{P}(10, 1, 0, 0)$$

$$1 : P_{15} = \mathbf{P}(\delta^5, 1, 0, 0) = \mathbf{P}(11, 1, 0, 0)$$

The 7 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \mathbf{Pl}(1, 0, 0, 0, 0, 0)_0$$

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & \delta^5 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{3260} = \begin{bmatrix} 1 & 11 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{3260} = \mathbf{Pl}(0, 0, 1, 1, 10, 1)_{46146} \\
\ell_2 &= \begin{bmatrix} 1 & \delta^5 & 0 & 0 \\ 0 & 0 & 1 & \delta^5 \end{bmatrix}_{3270} = \begin{bmatrix} 1 & 11 & 0 & 0 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{3270} = \mathbf{Pl}(0, 0, 10, 11, 1, 1)_{9705} \\
\ell_3 &= \begin{bmatrix} 1 & \delta^5 & 0 & 0 \\ 0 & 0 & 1 & \delta^{10} \end{bmatrix}_{3269} = \begin{bmatrix} 1 & 11 & 0 & 0 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{3269} = \mathbf{Pl}(0, 0, 11, 10, 11, 1)_{50536} \\
\ell_4 &= \begin{bmatrix} 1 & \delta^{10} & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2987} = \begin{bmatrix} 1 & 10 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2987} = \mathbf{Pl}(0, 0, 1, 1, 11, 1)_{50226} \\
\ell_5 &= \begin{bmatrix} 1 & \delta^{10} & 0 & 0 \\ 0 & 0 & 1 & \delta^5 \end{bmatrix}_{2997} = \begin{bmatrix} 1 & 10 & 0 & 0 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{2997} = \mathbf{Pl}(0, 0, 10, 11, 10, 1)_{46425} \\
\ell_6 &= \begin{bmatrix} 1 & \delta^{10} & 0 & 0 \\ 0 & 0 & 1 & \delta^{10} \end{bmatrix}_{2996} = \begin{bmatrix} 1 & 10 & 0 & 0 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{2996} = \mathbf{Pl}(0, 0, 11, 10, 1, 1)_{9736}
\end{aligned}$$

Rank of lines: (0, 3260, 3270, 3269, 2987, 2997, 2996)

Rank of points on Klein quadric: (0, 46146, 9705, 50536, 50226, 46425, 9736)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 3 Double points:

The double points on the surface are:

$$P_{530} = (0, 0, 1, 1) = \ell_1 \cap \ell_4$$

$$P_{2833} = (0, 0, 10, 1) = \ell_2 \cap \ell_5$$

$$P_{3089} = (0, 0, 11, 1) = \ell_3 \cap \ell_6$$

Single Points

The surface has 105 single points:

The single points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$ lies on line ℓ_0

1 : $P_1 = (0, 1, 0, 0)$ lies on line ℓ_0

2 : $P_5 = (1, 1, 0, 0)$ lies on line ℓ_0

3 : $P_6 = (2, 1, 0, 0)$ lies on line ℓ_0

4 : $P_7 = (3, 1, 0, 0)$ lies on line ℓ_0

5 : $P_8 = (4, 1, 0, 0)$ lies on line ℓ_0

6 : $P_9 = (5, 1, 0, 0)$ lies on line ℓ_0

7 : $P_{10} = (6, 1, 0, 0)$ lies on line ℓ_0

8 : $P_{11} = (7, 1, 0, 0)$ lies on line ℓ_0

9 : $P_{12} = (8, 1, 0, 0)$ lies on line ℓ_0

10 : $P_{13} = (9, 1, 0, 0)$ lies on line ℓ_0

11 : $P_{16} = (12, 1, 0, 0)$ lies on line ℓ_0

12 : $P_{17} = (13, 1, 0, 0)$ lies on line ℓ_0

13 : $P_{18} = (14, 1, 0, 0)$ lies on line ℓ_0

14 : $P_{19} = (15, 1, 0, 0)$ lies on line ℓ_0

15 : $P_{555} = (10, 1, 1, 1)$ lies on line ℓ_1

16 : $P_{556} = (11, 1, 1, 1)$ lies on line ℓ_4

17 : $P_{574} = (13, 2, 1, 1)$ lies on line ℓ_1

18 : $P_{576} = (15, 2, 1, 1)$ lies on line ℓ_4

19 : $P_{581} = (4, 3, 1, 1)$ lies on line ℓ_4

20 : $P_{584} = (7, 3, 1, 1)$ lies on line ℓ_1

21 : $P_{596} = (3, 4, 1, 1)$ lies on line ℓ_1

22 : $P_{600} = (7, 4, 1, 1)$ lies on line ℓ_4

23 : $P_{618} = (9, 5, 1, 1)$ lies on line ℓ_1

24 : $P_{621} = (12, 5, 1, 1)$ lies on line ℓ_4

25 : $P_{633} = (8, 6, 1, 1)$ lies on line ℓ_4

26 : $P_{639} = (14, 6, 1, 1)$ lies on line ℓ_1

27 : $P_{644} = (3, 7, 1, 1)$ lies on line ℓ_4

28 : $P_{645} = (4, 7, 1, 1)$ lies on line ℓ_1

29 : $P_{663} = (6, 8, 1, 1)$ lies on line ℓ_1

- 30 : $P_{671} = (14, 8, 1, 1)$ lies on line ℓ_4
 31 : $P_{678} = (5, 9, 1, 1)$ lies on line ℓ_4
 32 : $P_{685} = (12, 9, 1, 1)$ lies on line ℓ_1
 33 : $P_{690} = (1, 10, 1, 1)$ lies on line ℓ_4
 34 : $P_{700} = (11, 10, 1, 1)$ lies on line ℓ_1
 35 : $P_{706} = (1, 11, 1, 1)$ lies on line ℓ_1
 36 : $P_{715} = (10, 11, 1, 1)$ lies on line ℓ_4
 37 : $P_{726} = (5, 12, 1, 1)$ lies on line ℓ_1
 38 : $P_{730} = (9, 12, 1, 1)$ lies on line ℓ_4
 39 : $P_{739} = (2, 13, 1, 1)$ lies on line ℓ_4
 40 : $P_{752} = (15, 13, 1, 1)$ lies on line ℓ_1
 41 : $P_{759} = (6, 14, 1, 1)$ lies on line ℓ_4
 42 : $P_{761} = (8, 14, 1, 1)$ lies on line ℓ_1
 43 : $P_{771} = (2, 15, 1, 1)$ lies on line ℓ_1
 44 : $P_{782} = (13, 15, 1, 1)$ lies on line ℓ_4
 45 : $P_{2859} = (10, 1, 10, 1)$ lies on line ℓ_2
 46 : $P_{2860} = (11, 1, 10, 1)$ lies on line ℓ_5
 47 : $P_{2878} = (13, 2, 10, 1)$ lies on line ℓ_2
 48 : $P_{2880} = (15, 2, 10, 1)$ lies on line ℓ_5
 49 : $P_{2885} = (4, 3, 10, 1)$ lies on line ℓ_5
 50 : $P_{2888} = (7, 3, 10, 1)$ lies on line ℓ_2
 51 : $P_{2900} = (3, 4, 10, 1)$ lies on line ℓ_2
 52 : $P_{2904} = (7, 4, 10, 1)$ lies on line ℓ_5
 53 : $P_{2922} = (9, 5, 10, 1)$ lies on line ℓ_2
 54 : $P_{2925} = (12, 5, 10, 1)$ lies on line ℓ_5
 55 : $P_{2937} = (8, 6, 10, 1)$ lies on line ℓ_5
 56 : $P_{2943} = (14, 6, 10, 1)$ lies on line ℓ_2
 57 : $P_{2948} = (3, 7, 10, 1)$ lies on line ℓ_5
 58 : $P_{2949} = (4, 7, 10, 1)$ lies on line ℓ_2
 59 : $P_{2967} = (6, 8, 10, 1)$ lies on line ℓ_2
 60 : $P_{2975} = (14, 8, 10, 1)$ lies on line ℓ_5
 61 : $P_{2982} = (5, 9, 10, 1)$ lies on line ℓ_5
 62 : $P_{2989} = (12, 9, 10, 1)$ lies on line ℓ_2
 63 : $P_{2994} = (1, 10, 10, 1)$ lies on line ℓ_5
 64 : $P_{3004} = (11, 10, 10, 1)$ lies on line ℓ_2
 65 : $P_{3010} = (1, 11, 10, 1)$ lies on line ℓ_2
 66 : $P_{3019} = (10, 11, 10, 1)$ lies on line ℓ_5
 67 : $P_{3030} = (5, 12, 10, 1)$ lies on line ℓ_2
 68 : $P_{3034} = (9, 12, 10, 1)$ lies on line ℓ_5
 69 : $P_{3043} = (2, 13, 10, 1)$ lies on line ℓ_5
 70 : $P_{3056} = (15, 13, 10, 1)$ lies on line ℓ_2
 71 : $P_{3063} = (6, 14, 10, 1)$ lies on line ℓ_5
 72 : $P_{3065} = (8, 14, 10, 1)$ lies on line ℓ_2
 73 : $P_{3075} = (2, 15, 10, 1)$ lies on line ℓ_2
 74 : $P_{3086} = (13, 15, 10, 1)$ lies on line ℓ_5
 75 : $P_{3115} = (10, 1, 11, 1)$ lies on line ℓ_3
 76 : $P_{3116} = (11, 1, 11, 1)$ lies on line ℓ_6
 77 : $P_{3134} = (13, 2, 11, 1)$ lies on line ℓ_3
 78 : $P_{3136} = (15, 2, 11, 1)$ lies on line ℓ_6
 79 : $P_{3141} = (4, 3, 11, 1)$ lies on line ℓ_6
 80 : $P_{3144} = (7, 3, 11, 1)$ lies on line ℓ_3
 81 : $P_{3156} = (3, 4, 11, 1)$ lies on line ℓ_3
 82 : $P_{3160} = (7, 4, 11, 1)$ lies on line ℓ_6
 83 : $P_{3178} = (9, 5, 11, 1)$ lies on line ℓ_3
 84 : $P_{3181} = (12, 5, 11, 1)$ lies on line ℓ_6
 85 : $P_{3193} = (8, 6, 11, 1)$ lies on line ℓ_6
 86 : $P_{3199} = (14, 6, 11, 1)$ lies on line ℓ_3
 87 : $P_{3204} = (3, 7, 11, 1)$ lies on line ℓ_6
 88 : $P_{3205} = (4, 7, 11, 1)$ lies on line ℓ_3
 89 : $P_{3223} = (6, 8, 11, 1)$ lies on line ℓ_3
 90 : $P_{3231} = (14, 8, 11, 1)$ lies on line ℓ_6
 91 : $P_{3238} = (5, 9, 11, 1)$ lies on line ℓ_6
 92 : $P_{3245} = (12, 9, 11, 1)$ lies on line ℓ_3
 93 : $P_{3250} = (1, 10, 11, 1)$ lies on line ℓ_6
 94 : $P_{3260} = (11, 10, 11, 1)$ lies on line ℓ_3
 95 : $P_{3266} = (1, 11, 11, 1)$ lies on line ℓ_3
 96 : $P_{3275} = (10, 11, 11, 1)$ lies on line ℓ_6
 97 : $P_{3286} = (5, 12, 11, 1)$ lies on line ℓ_3
 98 : $P_{3290} = (9, 12, 11, 1)$ lies on line ℓ_6
 99 : $P_{3299} = (2, 13, 11, 1)$ lies on line ℓ_6
 100 : $P_{3312} = (15, 13, 11, 1)$ lies on line ℓ_3
 101 : $P_{3319} = (6, 14, 11, 1)$ lies on line ℓ_6
 102 : $P_{3321} = (8, 14, 11, 1)$ lies on line ℓ_3
 103 : $P_{3331} = (2, 15, 11, 1)$ lies on line ℓ_3
 104 : $P_{3342} = (13, 15, 11, 1)$ lies on line ℓ_6

The single points on the surface are:

Points on surface but on no line

The surface has 195 points not on any line:

The points on the surface but not on lines are:

- 0 : $P_{20} = (1, 0, 1, 0)$
 1 : $P_{35} = (0, 1, 1, 0)$
 2 : $P_{36} = (1, 1, 1, 0)$
 3 : $P_{60} = (9, 2, 1, 0)$
 4 : $P_{62} = (11, 2, 1, 0)$
 5 : $P_{93} = (10, 4, 1, 0)$
 6 : $P_{97} = (14, 4, 1, 0)$
 7 : $P_{165} = (2, 9, 1, 0)$
 8 : $P_{174} = (11, 9, 1, 0)$
 9 : $P_{183} = (4, 10, 1, 0)$
 10 : $P_{193} = (14, 10, 1, 0)$
 11 : $P_{197} = (2, 11, 1, 0)$

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| 12 : $P_{204} = (9, 11, 1, 0)$ | 66 : $P_{1603} = (2, 3, 5, 1)$ |
| 13 : $P_{247} = (4, 14, 1, 0)$ | 67 : $P_{1658} = (9, 6, 5, 1)$ |
| 14 : $P_{253} = (10, 14, 1, 0)$ | 68 : $P_{1664} = (15, 6, 5, 1)$ |
| 15 : $P_{790} = (5, 0, 2, 1)$ | 69 : $P_{1703} = (6, 9, 5, 1)$ |
| 16 : $P_{858} = (9, 4, 2, 1)$ | 70 : $P_{1712} = (15, 9, 5, 1)$ |
| 17 : $P_{862} = (13, 4, 2, 1)$ | 71 : $P_{1761} = (0, 13, 5, 1)$ |
| 18 : $P_{865} = (0, 5, 2, 1)$ | 72 : $P_{1774} = (13, 13, 5, 1)$ |
| 19 : $P_{870} = (5, 5, 2, 1)$ | 73 : $P_{1799} = (6, 15, 5, 1)$ |
| 20 : $P_{891} = (10, 6, 2, 1)$ | 74 : $P_{1802} = (9, 15, 5, 1)$ |
| 21 : $P_{893} = (12, 6, 2, 1)$ | 75 : $P_{1813} = (4, 0, 6, 1)$ |
| 22 : $P_{933} = (4, 9, 2, 1)$ | 76 : $P_{1866} = (9, 3, 6, 1)$ |
| 23 : $P_{942} = (13, 9, 2, 1)$ | 77 : $P_{1867} = (10, 3, 6, 1)$ |
| 24 : $P_{951} = (6, 10, 2, 1)$ | 78 : $P_{1873} = (0, 4, 6, 1)$ |
| 25 : $P_{957} = (12, 10, 2, 1)$ | 79 : $P_{1877} = (4, 4, 6, 1)$ |
| 26 : $P_{983} = (6, 12, 2, 1)$ | 80 : $P_{1929} = (8, 7, 6, 1)$ |
| 27 : $P_{987} = (10, 12, 2, 1)$ | 81 : $P_{1936} = (15, 7, 6, 1)$ |
| 28 : $P_{997} = (4, 13, 2, 1)$ | 82 : $P_{1944} = (7, 8, 6, 1)$ |
| 29 : $P_{1002} = (9, 13, 2, 1)$ | 83 : $P_{1952} = (15, 8, 6, 1)$ |
| 30 : $P_{1047} = (6, 0, 3, 1)$ | 84 : $P_{1956} = (3, 9, 6, 1)$ |
| 31 : $P_{1071} = (14, 1, 3, 1)$ | 85 : $P_{1963} = (10, 9, 6, 1)$ |
| 32 : $P_{1072} = (15, 1, 3, 1)$ | 86 : $P_{1972} = (3, 10, 6, 1)$ |
| 33 : $P_{1113} = (8, 4, 3, 1)$ | 87 : $P_{1978} = (9, 10, 6, 1)$ |
| 34 : $P_{1117} = (12, 4, 3, 1)$ | 88 : $P_{2056} = (7, 15, 6, 1)$ |
| 35 : $P_{1137} = (0, 6, 3, 1)$ | 89 : $P_{2057} = (8, 15, 6, 1)$ |
| 36 : $P_{1143} = (6, 6, 3, 1)$ | 90 : $P_{2079} = (14, 0, 7, 1)$ |
| 37 : $P_{1173} = (4, 8, 3, 1)$ | 91 : $P_{2105} = (8, 2, 7, 1)$ |
| 38 : $P_{1181} = (12, 8, 3, 1)$ | 92 : $P_{2107} = (10, 2, 7, 1)$ |
| 39 : $P_{1237} = (4, 12, 3, 1)$ | 93 : $P_{2118} = (5, 3, 7, 1)$ |
| 40 : $P_{1241} = (8, 12, 3, 1)$ | 94 : $P_{2119} = (6, 3, 7, 1)$ |
| 41 : $P_{1266} = (1, 14, 3, 1)$ | 95 : $P_{2148} = (3, 5, 7, 1)$ |
| 42 : $P_{1280} = (15, 14, 3, 1)$ | 96 : $P_{2151} = (6, 5, 7, 1)$ |
| 43 : $P_{1282} = (1, 15, 3, 1)$ | 97 : $P_{2164} = (3, 6, 7, 1)$ |
| 44 : $P_{1295} = (14, 15, 3, 1)$ | 98 : $P_{2166} = (5, 6, 7, 1)$ |
| 45 : $P_{1305} = (8, 0, 4, 1)$ | 99 : $P_{2195} = (2, 8, 7, 1)$ |
| 46 : $P_{1404} = (11, 6, 4, 1)$ | 100 : $P_{2203} = (10, 8, 7, 1)$ |
| 47 : $P_{1406} = (13, 6, 4, 1)$ | 101 : $P_{2227} = (2, 10, 7, 1)$ |
| 48 : $P_{1418} = (9, 7, 4, 1)$ | 102 : $P_{2233} = (8, 10, 7, 1)$ |
| 49 : $P_{1423} = (14, 7, 4, 1)$ | 103 : $P_{2289} = (0, 14, 7, 1)$ |
| 50 : $P_{1425} = (0, 8, 4, 1)$ | 104 : $P_{2303} = (14, 14, 7, 1)$ |
| 51 : $P_{1433} = (8, 8, 4, 1)$ | 105 : $P_{2328} = (7, 0, 8, 1)$ |
| 52 : $P_{1448} = (7, 9, 4, 1)$ | 106 : $P_{2341} = (4, 1, 8, 1)$ |
| 53 : $P_{1455} = (14, 9, 4, 1)$ | 107 : $P_{2342} = (5, 1, 8, 1)$ |
| 54 : $P_{1479} = (6, 11, 4, 1)$ | 108 : $P_{2382} = (13, 3, 8, 1)$ |
| 55 : $P_{1486} = (13, 11, 4, 1)$ | 109 : $P_{2383} = (14, 3, 8, 1)$ |
| 56 : $P_{1511} = (6, 13, 4, 1)$ | 110 : $P_{2386} = (1, 4, 8, 1)$ |
| 57 : $P_{1516} = (11, 13, 4, 1)$ | 111 : $P_{2390} = (5, 4, 8, 1)$ |
| 58 : $P_{1528} = (7, 14, 4, 1)$ | 112 : $P_{2402} = (1, 5, 8, 1)$ |
| 59 : $P_{1530} = (9, 14, 4, 1)$ | 113 : $P_{2405} = (4, 5, 8, 1)$ |
| 60 : $P_{1566} = (13, 0, 5, 1)$ | 114 : $P_{2433} = (0, 7, 8, 1)$ |
| 61 : $P_{1571} = (2, 1, 5, 1)$ | 115 : $P_{2440} = (7, 7, 8, 1)$ |
| 62 : $P_{1572} = (3, 1, 5, 1)$ | 116 : $P_{2532} = (3, 13, 8, 1)$ |
| 63 : $P_{1586} = (1, 2, 5, 1)$ | 117 : $P_{2543} = (14, 13, 8, 1)$ |
| 64 : $P_{1588} = (3, 2, 5, 1)$ | 118 : $P_{2548} = (3, 14, 8, 1)$ |
| 65 : $P_{1602} = (1, 3, 5, 1)$ | 119 : $P_{2558} = (13, 14, 8, 1)$ |

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| 120 : $P_{2592} = (15, 0, 9, 1)$ | 158 : $P_{3791} = (14, 11, 13, 1)$ |
| 121 : $P_{2621} = (12, 2, 9, 1)$ | 159 : $P_{3796} = (3, 12, 13, 1)$ |
| 122 : $P_{2623} = (14, 2, 9, 1)$ | 160 : $P_{3808} = (15, 12, 13, 1)$ |
| 123 : $P_{2699} = (10, 7, 9, 1)$ | 161 : $P_{3830} = (5, 14, 13, 1)$ |
| 124 : $P_{2702} = (13, 7, 9, 1)$ | 162 : $P_{3836} = (11, 14, 13, 1)$ |
| 125 : $P_{2744} = (7, 10, 9, 1)$ | 163 : $P_{3844} = (3, 15, 13, 1)$ |
| 126 : $P_{2750} = (13, 10, 9, 1)$ | 164 : $P_{3853} = (12, 15, 13, 1)$ |
| 127 : $P_{2771} = (2, 12, 9, 1)$ | 165 : $P_{3860} = (3, 0, 14, 1)$ |
| 128 : $P_{2783} = (14, 12, 9, 1)$ | 166 : $P_{3893} = (4, 2, 14, 1)$ |
| 129 : $P_{2792} = (7, 13, 9, 1)$ | 167 : $P_{3895} = (6, 2, 14, 1)$ |
| 130 : $P_{2795} = (10, 13, 9, 1)$ | 168 : $P_{3905} = (0, 3, 14, 1)$ |
| 131 : $P_{2803} = (2, 14, 9, 1)$ | 169 : $P_{3908} = (3, 3, 14, 1)$ |
| 132 : $P_{2813} = (12, 14, 9, 1)$ | 170 : $P_{3923} = (2, 4, 14, 1)$ |
| 133 : $P_{2817} = (0, 15, 9, 1)$ | 171 : $P_{3927} = (6, 4, 14, 1)$ |
| 134 : $P_{2832} = (15, 15, 9, 1)$ | 172 : $P_{3955} = (2, 6, 14, 1)$ |
| 135 : $P_{3347} = (2, 0, 12, 1)$ | 173 : $P_{3957} = (4, 6, 14, 1)$ |
| 136 : $P_{3377} = (0, 2, 12, 1)$ | 174 : $P_{3980} = (11, 7, 14, 1)$ |
| 137 : $P_{3379} = (2, 2, 12, 1)$ | 175 : $P_{3981} = (12, 7, 14, 1)$ |
| 138 : $P_{3420} = (11, 4, 12, 1)$ | 176 : $P_{4040} = (7, 11, 14, 1)$ |
| 139 : $P_{3424} = (15, 4, 12, 1)$ | 177 : $P_{4045} = (12, 11, 14, 1)$ |
| 140 : $P_{3433} = (8, 5, 12, 1)$ | 178 : $P_{4056} = (7, 12, 14, 1)$ |
| 141 : $P_{3438} = (13, 5, 12, 1)$ | 179 : $P_{4060} = (11, 12, 14, 1)$ |
| 142 : $P_{3478} = (5, 8, 12, 1)$ | 180 : $P_{4125} = (12, 0, 15, 1)$ |
| 143 : $P_{3486} = (13, 8, 12, 1)$ | 181 : $P_{4137} = (8, 1, 15, 1)$ |
| 144 : $P_{3525} = (4, 11, 12, 1)$ | 182 : $P_{4138} = (9, 1, 15, 1)$ |
| 145 : $P_{3536} = (15, 11, 12, 1)$ | 183 : $P_{4150} = (5, 2, 15, 1)$ |
| 146 : $P_{3558} = (5, 13, 12, 1)$ | 184 : $P_{4152} = (7, 2, 15, 1)$ |
| 147 : $P_{3561} = (8, 13, 12, 1)$ | 185 : $P_{4195} = (2, 5, 15, 1)$ |
| 148 : $P_{3589} = (4, 15, 12, 1)$ | 186 : $P_{4200} = (7, 5, 15, 1)$ |
| 149 : $P_{3596} = (11, 15, 12, 1)$ | 187 : $P_{4227} = (2, 7, 15, 1)$ |
| 150 : $P_{3610} = (9, 0, 13, 1)$ | 188 : $P_{4230} = (5, 7, 15, 1)$ |
| 151 : $P_{3661} = (12, 3, 13, 1)$ | 189 : $P_{4242} = (1, 8, 15, 1)$ |
| 152 : $P_{3664} = (15, 3, 13, 1)$ | 190 : $P_{4250} = (9, 8, 15, 1)$ |
| 153 : $P_{3692} = (11, 5, 13, 1)$ | 191 : $P_{4258} = (1, 9, 15, 1)$ |
| 154 : $P_{3695} = (14, 5, 13, 1)$ | 192 : $P_{4265} = (8, 9, 15, 1)$ |
| 155 : $P_{3745} = (0, 9, 13, 1)$ | 193 : $P_{4305} = (0, 12, 15, 1)$ |
| 156 : $P_{3754} = (9, 9, 13, 1)$ | 194 : $P_{4317} = (12, 12, 15, 1)$ |
| 157 : $P_{3782} = (5, 11, 13, 1)$ | |

Line Intersection Graph

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|---|---|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| 2 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| 3 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 4 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 5 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 6 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |

Neighbor sets in the line intersection graph:

Line 0 intersects

| | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|
| Line | ℓ_1 | ℓ_2 | ℓ_3 | ℓ_4 | ℓ_5 | ℓ_6 |
| in point | P_{14} | P_{14} | P_{14} | P_{15} | P_{15} | P_{15} |

Line 1 intersects

| Line | ℓ_0 | ℓ_2 | ℓ_3 | ℓ_4 |
|----------|----------|----------|----------|-----------|
| in point | P_{14} | P_{14} | P_{14} | P_{530} |

Line 2 intersects

| Line | ℓ_0 | ℓ_1 | ℓ_3 | ℓ_5 |
|----------|----------|----------|----------|------------|
| in point | P_{14} | P_{14} | P_{14} | P_{2833} |

Line 3 intersects

| Line | ℓ_0 | ℓ_1 | ℓ_2 | ℓ_6 |
|----------|----------|----------|----------|------------|
| in point | P_{14} | P_{14} | P_{14} | P_{3089} |

Line 4 intersects

| Line | ℓ_0 | ℓ_1 | ℓ_5 | ℓ_6 |
|----------|----------|-----------|----------|----------|
| in point | P_{15} | P_{530} | P_{15} | P_{15} |

Line 5 intersects

| Line | ℓ_0 | ℓ_2 | ℓ_4 | ℓ_6 |
|----------|----------|------------|----------|----------|
| in point | P_{15} | P_{2833} | P_{15} | P_{15} |

Line 6 intersects

| Line | ℓ_0 | ℓ_3 | ℓ_4 | ℓ_5 |
|----------|----------|------------|----------|----------|
| in point | P_{15} | P_{3089} | P_{15} | P_{15} |

The surface has 305 points:

The points on the surface are:

| | | |
|---------------------------------|---------------------------------|---------------------------------|
| 0 : $P_0 = (1, 0, 0, 0)$ | 30 : $P_{247} = (4, 14, 1, 0)$ | 60 : $P_{761} = (8, 14, 1, 1)$ |
| 1 : $P_1 = (0, 1, 0, 0)$ | 31 : $P_{253} = (10, 14, 1, 0)$ | 61 : $P_{771} = (2, 15, 1, 1)$ |
| 2 : $P_5 = (1, 1, 0, 0)$ | 32 : $P_{530} = (0, 0, 1, 1)$ | 62 : $P_{782} = (13, 15, 1, 1)$ |
| 3 : $P_6 = (2, 1, 0, 0)$ | 33 : $P_{555} = (10, 1, 1, 1)$ | 63 : $P_{790} = (5, 0, 2, 1)$ |
| 4 : $P_7 = (3, 1, 0, 0)$ | 34 : $P_{556} = (11, 1, 1, 1)$ | 64 : $P_{858} = (9, 4, 2, 1)$ |
| 5 : $P_8 = (4, 1, 0, 0)$ | 35 : $P_{574} = (13, 2, 1, 1)$ | 65 : $P_{862} = (13, 4, 2, 1)$ |
| 6 : $P_9 = (5, 1, 0, 0)$ | 36 : $P_{576} = (15, 2, 1, 1)$ | 66 : $P_{865} = (0, 5, 2, 1)$ |
| 7 : $P_{10} = (6, 1, 0, 0)$ | 37 : $P_{581} = (4, 3, 1, 1)$ | 67 : $P_{870} = (5, 5, 2, 1)$ |
| 8 : $P_{11} = (7, 1, 0, 0)$ | 38 : $P_{584} = (7, 3, 1, 1)$ | 68 : $P_{891} = (10, 6, 2, 1)$ |
| 9 : $P_{12} = (8, 1, 0, 0)$ | 39 : $P_{596} = (3, 4, 1, 1)$ | 69 : $P_{893} = (12, 6, 2, 1)$ |
| 10 : $P_{13} = (9, 1, 0, 0)$ | 40 : $P_{600} = (7, 4, 1, 1)$ | 70 : $P_{933} = (4, 9, 2, 1)$ |
| 11 : $P_{14} = (10, 1, 0, 0)$ | 41 : $P_{618} = (9, 5, 1, 1)$ | 71 : $P_{942} = (13, 9, 2, 1)$ |
| 12 : $P_{15} = (11, 1, 0, 0)$ | 42 : $P_{621} = (12, 5, 1, 1)$ | 72 : $P_{951} = (6, 10, 2, 1)$ |
| 13 : $P_{16} = (12, 1, 0, 0)$ | 43 : $P_{633} = (8, 6, 1, 1)$ | 73 : $P_{957} = (12, 10, 2, 1)$ |
| 14 : $P_{17} = (13, 1, 0, 0)$ | 44 : $P_{639} = (14, 6, 1, 1)$ | 74 : $P_{983} = (6, 12, 2, 1)$ |
| 15 : $P_{18} = (14, 1, 0, 0)$ | 45 : $P_{644} = (3, 7, 1, 1)$ | 75 : $P_{987} = (10, 12, 2, 1)$ |
| 16 : $P_{19} = (15, 1, 0, 0)$ | 46 : $P_{645} = (4, 7, 1, 1)$ | 76 : $P_{997} = (4, 13, 2, 1)$ |
| 17 : $P_{20} = (1, 0, 1, 0)$ | 47 : $P_{663} = (6, 8, 1, 1)$ | 77 : $P_{1002} = (9, 13, 2, 1)$ |
| 18 : $P_{35} = (0, 1, 1, 0)$ | 48 : $P_{671} = (14, 8, 1, 1)$ | 78 : $P_{1047} = (6, 0, 3, 1)$ |
| 19 : $P_{36} = (1, 1, 1, 0)$ | 49 : $P_{678} = (5, 9, 1, 1)$ | 79 : $P_{1071} = (14, 1, 3, 1)$ |
| 20 : $P_{60} = (9, 2, 1, 0)$ | 50 : $P_{685} = (12, 9, 1, 1)$ | 80 : $P_{1072} = (15, 1, 3, 1)$ |
| 21 : $P_{62} = (11, 2, 1, 0)$ | 51 : $P_{690} = (1, 10, 1, 1)$ | 81 : $P_{1113} = (8, 4, 3, 1)$ |
| 22 : $P_{93} = (10, 4, 1, 0)$ | 52 : $P_{700} = (11, 10, 1, 1)$ | 82 : $P_{1117} = (12, 4, 3, 1)$ |
| 23 : $P_{97} = (14, 4, 1, 0)$ | 53 : $P_{706} = (1, 11, 1, 1)$ | 83 : $P_{1137} = (0, 6, 3, 1)$ |
| 24 : $P_{165} = (2, 9, 1, 0)$ | 54 : $P_{715} = (10, 11, 1, 1)$ | 84 : $P_{1143} = (6, 6, 3, 1)$ |
| 25 : $P_{174} = (11, 9, 1, 0)$ | 55 : $P_{726} = (5, 12, 1, 1)$ | 85 : $P_{1173} = (4, 8, 3, 1)$ |
| 26 : $P_{183} = (4, 10, 1, 0)$ | 56 : $P_{730} = (9, 12, 1, 1)$ | 86 : $P_{1181} = (12, 8, 3, 1)$ |
| 27 : $P_{193} = (14, 10, 1, 0)$ | 57 : $P_{739} = (2, 13, 1, 1)$ | 87 : $P_{1237} = (4, 12, 3, 1)$ |
| 28 : $P_{197} = (2, 11, 1, 0)$ | 58 : $P_{752} = (15, 13, 1, 1)$ | 88 : $P_{1241} = (8, 12, 3, 1)$ |
| 29 : $P_{204} = (9, 11, 1, 0)$ | 59 : $P_{759} = (6, 14, 1, 1)$ | 89 : $P_{1266} = (1, 14, 3, 1)$ |

| | | |
|-----------------------------------|-----------------------------------|------------------------------------|
| 90 : $P_{1280} = (15, 14, 3, 1)$ | 144 : $P_{2151} = (6, 5, 7, 1)$ | 198 : $P_{2967} = (6, 8, 10, 1)$ |
| 91 : $P_{1282} = (1, 15, 3, 1)$ | 145 : $P_{2164} = (3, 6, 7, 1)$ | 199 : $P_{2975} = (14, 8, 10, 1)$ |
| 92 : $P_{1295} = (14, 15, 3, 1)$ | 146 : $P_{2166} = (5, 6, 7, 1)$ | 200 : $P_{2982} = (5, 9, 10, 1)$ |
| 93 : $P_{1305} = (8, 0, 4, 1)$ | 147 : $P_{2195} = (2, 8, 7, 1)$ | 201 : $P_{2989} = (12, 9, 10, 1)$ |
| 94 : $P_{1404} = (11, 6, 4, 1)$ | 148 : $P_{2203} = (10, 8, 7, 1)$ | 202 : $P_{2994} = (1, 10, 10, 1)$ |
| 95 : $P_{1406} = (13, 6, 4, 1)$ | 149 : $P_{2227} = (2, 10, 7, 1)$ | 203 : $P_{3004} = (11, 10, 10, 1)$ |
| 96 : $P_{1418} = (9, 7, 4, 1)$ | 150 : $P_{2233} = (8, 10, 7, 1)$ | 204 : $P_{3010} = (1, 11, 10, 1)$ |
| 97 : $P_{1423} = (14, 7, 4, 1)$ | 151 : $P_{2289} = (0, 14, 7, 1)$ | 205 : $P_{3019} = (10, 11, 10, 1)$ |
| 98 : $P_{1425} = (0, 8, 4, 1)$ | 152 : $P_{2303} = (14, 14, 7, 1)$ | 206 : $P_{3030} = (5, 12, 10, 1)$ |
| 99 : $P_{1433} = (8, 8, 4, 1)$ | 153 : $P_{2328} = (7, 0, 8, 1)$ | 207 : $P_{3034} = (9, 12, 10, 1)$ |
| 100 : $P_{1448} = (7, 9, 4, 1)$ | 154 : $P_{2341} = (4, 1, 8, 1)$ | 208 : $P_{3043} = (2, 13, 10, 1)$ |
| 101 : $P_{1455} = (14, 9, 4, 1)$ | 155 : $P_{2342} = (5, 1, 8, 1)$ | 209 : $P_{3056} = (15, 13, 10, 1)$ |
| 102 : $P_{1479} = (6, 11, 4, 1)$ | 156 : $P_{2382} = (13, 3, 8, 1)$ | 210 : $P_{3063} = (6, 14, 10, 1)$ |
| 103 : $P_{1486} = (13, 11, 4, 1)$ | 157 : $P_{2383} = (14, 3, 8, 1)$ | 211 : $P_{3065} = (8, 14, 10, 1)$ |
| 104 : $P_{1511} = (6, 13, 4, 1)$ | 158 : $P_{2386} = (1, 4, 8, 1)$ | 212 : $P_{3075} = (2, 15, 10, 1)$ |
| 105 : $P_{1516} = (11, 13, 4, 1)$ | 159 : $P_{2390} = (5, 4, 8, 1)$ | 213 : $P_{3086} = (13, 15, 10, 1)$ |
| 106 : $P_{1528} = (7, 14, 4, 1)$ | 160 : $P_{2402} = (1, 5, 8, 1)$ | 214 : $P_{3089} = (0, 0, 11, 1)$ |
| 107 : $P_{1530} = (9, 14, 4, 1)$ | 161 : $P_{2405} = (4, 5, 8, 1)$ | 215 : $P_{3115} = (10, 1, 11, 1)$ |
| 108 : $P_{1566} = (13, 0, 5, 1)$ | 162 : $P_{2433} = (0, 7, 8, 1)$ | 216 : $P_{3116} = (11, 1, 11, 1)$ |
| 109 : $P_{1571} = (2, 1, 5, 1)$ | 163 : $P_{2440} = (7, 7, 8, 1)$ | 217 : $P_{3134} = (13, 2, 11, 1)$ |
| 110 : $P_{1572} = (3, 1, 5, 1)$ | 164 : $P_{2532} = (3, 13, 8, 1)$ | 218 : $P_{3136} = (15, 2, 11, 1)$ |
| 111 : $P_{1586} = (1, 2, 5, 1)$ | 165 : $P_{2543} = (14, 13, 8, 1)$ | 219 : $P_{3141} = (4, 3, 11, 1)$ |
| 112 : $P_{1588} = (3, 2, 5, 1)$ | 166 : $P_{2548} = (3, 14, 8, 1)$ | 220 : $P_{3144} = (7, 3, 11, 1)$ |
| 113 : $P_{1602} = (1, 3, 5, 1)$ | 167 : $P_{2558} = (13, 14, 8, 1)$ | 221 : $P_{3156} = (3, 4, 11, 1)$ |
| 114 : $P_{1603} = (2, 3, 5, 1)$ | 168 : $P_{2592} = (15, 0, 9, 1)$ | 222 : $P_{3160} = (7, 4, 11, 1)$ |
| 115 : $P_{1658} = (9, 6, 5, 1)$ | 169 : $P_{2621} = (12, 2, 9, 1)$ | 223 : $P_{3178} = (9, 5, 11, 1)$ |
| 116 : $P_{1664} = (15, 6, 5, 1)$ | 170 : $P_{2623} = (14, 2, 9, 1)$ | 224 : $P_{3181} = (12, 5, 11, 1)$ |
| 117 : $P_{1703} = (6, 9, 5, 1)$ | 171 : $P_{2699} = (10, 7, 9, 1)$ | 225 : $P_{3193} = (8, 6, 11, 1)$ |
| 118 : $P_{1712} = (15, 9, 5, 1)$ | 172 : $P_{2702} = (13, 7, 9, 1)$ | 226 : $P_{3199} = (14, 6, 11, 1)$ |
| 119 : $P_{1761} = (0, 13, 5, 1)$ | 173 : $P_{2744} = (7, 10, 9, 1)$ | 227 : $P_{3204} = (3, 7, 11, 1)$ |
| 120 : $P_{1774} = (13, 13, 5, 1)$ | 174 : $P_{2750} = (13, 10, 9, 1)$ | 228 : $P_{3205} = (4, 7, 11, 1)$ |
| 121 : $P_{1799} = (6, 15, 5, 1)$ | 175 : $P_{2771} = (2, 12, 9, 1)$ | 229 : $P_{3223} = (6, 8, 11, 1)$ |
| 122 : $P_{1802} = (9, 15, 5, 1)$ | 176 : $P_{2783} = (14, 12, 9, 1)$ | 230 : $P_{3231} = (14, 8, 11, 1)$ |
| 123 : $P_{1813} = (4, 0, 6, 1)$ | 177 : $P_{2792} = (7, 13, 9, 1)$ | 231 : $P_{3238} = (5, 9, 11, 1)$ |
| 124 : $P_{1866} = (9, 3, 6, 1)$ | 178 : $P_{2795} = (10, 13, 9, 1)$ | 232 : $P_{3245} = (12, 9, 11, 1)$ |
| 125 : $P_{1867} = (10, 3, 6, 1)$ | 179 : $P_{2803} = (2, 14, 9, 1)$ | 233 : $P_{3250} = (1, 10, 11, 1)$ |
| 126 : $P_{1873} = (0, 4, 6, 1)$ | 180 : $P_{2813} = (12, 14, 9, 1)$ | 234 : $P_{3260} = (11, 10, 11, 1)$ |
| 127 : $P_{1877} = (4, 4, 6, 1)$ | 181 : $P_{2817} = (0, 15, 9, 1)$ | 235 : $P_{3266} = (1, 11, 11, 1)$ |
| 128 : $P_{1929} = (8, 7, 6, 1)$ | 182 : $P_{2832} = (15, 15, 9, 1)$ | 236 : $P_{3275} = (10, 11, 11, 1)$ |
| 129 : $P_{1936} = (15, 7, 6, 1)$ | 183 : $P_{2833} = (0, 0, 10, 1)$ | 237 : $P_{3286} = (5, 12, 11, 1)$ |
| 130 : $P_{1944} = (7, 8, 6, 1)$ | 184 : $P_{2859} = (10, 1, 10, 1)$ | 238 : $P_{3290} = (9, 12, 11, 1)$ |
| 131 : $P_{1952} = (15, 8, 6, 1)$ | 185 : $P_{2860} = (11, 1, 10, 1)$ | 239 : $P_{3299} = (2, 13, 11, 1)$ |
| 132 : $P_{1956} = (3, 9, 6, 1)$ | 186 : $P_{2878} = (13, 2, 10, 1)$ | 240 : $P_{3312} = (15, 13, 11, 1)$ |
| 133 : $P_{1963} = (10, 9, 6, 1)$ | 187 : $P_{2880} = (15, 2, 10, 1)$ | 241 : $P_{3319} = (6, 14, 11, 1)$ |
| 134 : $P_{1972} = (3, 10, 6, 1)$ | 188 : $P_{2885} = (4, 3, 10, 1)$ | 242 : $P_{3321} = (8, 14, 11, 1)$ |
| 135 : $P_{1978} = (9, 10, 6, 1)$ | 189 : $P_{2888} = (7, 3, 10, 1)$ | 243 : $P_{3331} = (2, 15, 11, 1)$ |
| 136 : $P_{2056} = (7, 15, 6, 1)$ | 190 : $P_{2900} = (3, 4, 10, 1)$ | 244 : $P_{3342} = (13, 15, 11, 1)$ |
| 137 : $P_{2057} = (8, 15, 6, 1)$ | 191 : $P_{2904} = (7, 4, 10, 1)$ | 245 : $P_{3347} = (2, 0, 12, 1)$ |
| 138 : $P_{2079} = (14, 0, 7, 1)$ | 192 : $P_{2922} = (9, 5, 10, 1)$ | 246 : $P_{3377} = (0, 2, 12, 1)$ |
| 139 : $P_{2105} = (8, 2, 7, 1)$ | 193 : $P_{2925} = (12, 5, 10, 1)$ | 247 : $P_{3379} = (2, 2, 12, 1)$ |
| 140 : $P_{2107} = (10, 2, 7, 1)$ | 194 : $P_{2937} = (8, 6, 10, 1)$ | 248 : $P_{3420} = (11, 4, 12, 1)$ |
| 141 : $P_{2118} = (5, 3, 7, 1)$ | 195 : $P_{2943} = (14, 6, 10, 1)$ | 249 : $P_{3424} = (15, 4, 12, 1)$ |
| 142 : $P_{2119} = (6, 3, 7, 1)$ | 196 : $P_{2948} = (3, 7, 10, 1)$ | 250 : $P_{3433} = (8, 5, 12, 1)$ |
| 143 : $P_{2148} = (3, 5, 7, 1)$ | 197 : $P_{2949} = (4, 7, 10, 1)$ | 251 : $P_{3438} = (13, 5, 12, 1)$ |

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| 252 : $P_{3478} = (5, 8, 12, 1)$ | 270 : $P_{3808} = (15, 12, 13, 1)$ | 288 : $P_{4056} = (7, 12, 14, 1)$ |
| 253 : $P_{3486} = (13, 8, 12, 1)$ | 271 : $P_{3830} = (5, 14, 13, 1)$ | 289 : $P_{4060} = (11, 12, 14, 1)$ |
| 254 : $P_{3525} = (4, 11, 12, 1)$ | 272 : $P_{3836} = (11, 14, 13, 1)$ | 290 : $P_{4125} = (12, 0, 15, 1)$ |
| 255 : $P_{3536} = (15, 11, 12, 1)$ | 273 : $P_{3844} = (3, 15, 13, 1)$ | 291 : $P_{4137} = (8, 1, 15, 1)$ |
| 256 : $P_{3558} = (5, 13, 12, 1)$ | 274 : $P_{3853} = (12, 15, 13, 1)$ | 292 : $P_{4138} = (9, 1, 15, 1)$ |
| 257 : $P_{3561} = (8, 13, 12, 1)$ | 275 : $P_{3860} = (3, 0, 14, 1)$ | 293 : $P_{4150} = (5, 2, 15, 1)$ |
| 258 : $P_{3589} = (4, 15, 12, 1)$ | 276 : $P_{3893} = (4, 2, 14, 1)$ | 294 : $P_{4152} = (7, 2, 15, 1)$ |
| 259 : $P_{3596} = (11, 15, 12, 1)$ | 277 : $P_{3895} = (6, 2, 14, 1)$ | 295 : $P_{4195} = (2, 5, 15, 1)$ |
| 260 : $P_{3610} = (9, 0, 13, 1)$ | 278 : $P_{3905} = (0, 3, 14, 1)$ | 296 : $P_{4200} = (7, 5, 15, 1)$ |
| 261 : $P_{3661} = (12, 3, 13, 1)$ | 279 : $P_{3908} = (3, 3, 14, 1)$ | 297 : $P_{4227} = (2, 7, 15, 1)$ |
| 262 : $P_{3664} = (15, 3, 13, 1)$ | 280 : $P_{3923} = (2, 4, 14, 1)$ | 298 : $P_{4230} = (5, 7, 15, 1)$ |
| 263 : $P_{3692} = (11, 5, 13, 1)$ | 281 : $P_{3927} = (6, 4, 14, 1)$ | 299 : $P_{4242} = (1, 8, 15, 1)$ |
| 264 : $P_{3695} = (14, 5, 13, 1)$ | 282 : $P_{3955} = (2, 6, 14, 1)$ | 300 : $P_{4250} = (9, 8, 15, 1)$ |
| 265 : $P_{3745} = (0, 9, 13, 1)$ | 283 : $P_{3957} = (4, 6, 14, 1)$ | 301 : $P_{4258} = (1, 9, 15, 1)$ |
| 266 : $P_{3754} = (9, 9, 13, 1)$ | 284 : $P_{3980} = (11, 7, 14, 1)$ | 302 : $P_{4265} = (8, 9, 15, 1)$ |
| 267 : $P_{3782} = (5, 11, 13, 1)$ | 285 : $P_{3981} = (12, 7, 14, 1)$ | 303 : $P_{4305} = (0, 12, 15, 1)$ |
| 268 : $P_{3791} = (14, 11, 13, 1)$ | 286 : $P_{4040} = (7, 11, 14, 1)$ | 304 : $P_{4317} = (12, 12, 15, 1)$ |
| 269 : $P_{3796} = (3, 12, 13, 1)$ | 287 : $P_{4045} = (12, 11, 14, 1)$ | |