

Rank-74099 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(16) is 304222485

General information

Number of lines	10
Number of points	321
Number of singular points	1
Number of Eckardt points	2
Number of double points	9
Number of single points	141
Number of points off lines	168
Number of Hesse planes	0
Number of axes	0
Type of points on lines	17^{10}
Type of lines on points	$5, 3^2, 2^9, 1^{141}, 0^{168}$

Singular Points

The surface has 1 singular points:

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

The 10 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{69904} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{69904} = \mathbf{Pl}(0, 0, 0, 1, 0, 0)_{33}$$

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{70160} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{70160} = \mathbf{Pl}(0, 1, 0, 0, 0, 0)_1 \\
\ell_2 &= \begin{bmatrix} 1 & \delta^5 & 0 & \delta^7 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{33835} = \begin{bmatrix} 1 & 11 & 0 & 7 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{33835} = \mathbf{Pl}(0, 4, 10, 0, 0, 1)_{4954} \\
\ell_3 &= \begin{bmatrix} 1 & \delta^5 & 0 & \delta^{13} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{29467} = \begin{bmatrix} 1 & 11 & 0 & 6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{29467} = \mathbf{Pl}(0, 14, 10, 0, 0, 1)_{4964} \\
\ell_4 &= \begin{bmatrix} 1 & \delta^{10} & 0 & \delta^{11} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{59770} = \begin{bmatrix} 1 & 10 & 0 & 13 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{59770} = \mathbf{Pl}(0, 2, 11, 0, 0, 1)_{4983} \\
\ell_5 &= \begin{bmatrix} 1 & \delta^{10} & 0 & \delta^{14} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{55402} = \begin{bmatrix} 1 & 10 & 0 & 12 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{55402} = \mathbf{Pl}(0, 9, 11, 0, 0, 1)_{4990} \\
\ell_6 &= \begin{bmatrix} 1 & 0 & \delta^5 & \delta^{13} \\ 0 & 1 & 0 & \delta^{10} \end{bmatrix}_{29371} = \begin{bmatrix} 1 & 0 & 11 & 6 \\ 0 & 1 & 0 & 10 \end{bmatrix}_{29371} = \mathbf{Pl}(11, 10, 0, 14, 11, 1)_{50206} \\
\ell_7 &= \begin{bmatrix} 1 & 0 & \delta^5 & \delta^7 \\ 0 & 1 & 0 & \delta^{10} \end{bmatrix}_{33739} = \begin{bmatrix} 1 & 0 & 11 & 7 \\ 0 & 1 & 0 & 10 \end{bmatrix}_{33739} = \mathbf{Pl}(11, 10, 0, 4, 11, 1)_{50056} \\
\ell_8 &= \begin{bmatrix} 1 & 0 & \delta^{10} & \delta^{14} \\ 0 & 1 & 0 & \delta^5 \end{bmatrix}_{55322} = \begin{bmatrix} 1 & 0 & 10 & 12 \\ 0 & 1 & 0 & 11 \end{bmatrix}_{55322} = \mathbf{Pl}(10, 11, 0, 9, 10, 1)_{46050} \\
\ell_9 &= \begin{bmatrix} 1 & 0 & \delta^{10} & \delta^{11} \\ 0 & 1 & 0 & \delta^5 \end{bmatrix}_{59690} = \begin{bmatrix} 1 & 0 & 10 & 13 \\ 0 & 1 & 0 & 11 \end{bmatrix}_{59690} = \mathbf{Pl}(10, 11, 0, 2, 10, 1)_{45945}
\end{aligned}$$

Rank of lines: (69904, 70160, 33835, 29467, 59770, 55402, 29371, 33739, 55322, 59690)

Rank of points on Klein quadric: (33, 1, 4954, 4964, 4983, 4990, 50206, 50056, 46050, 45945)

Eckardt Points

The surface has 2 Eckardt points:

$$0 : P_{434} = \mathbf{P}(0, \delta^{10}, 0, 1) = \mathbf{P}(0, 10, 0, 1),$$

$$1 : P_{450} = \mathbf{P}(0, \delta^5, 0, 1) = \mathbf{P}(0, 11, 0, 1).$$

Double Points

The surface has 9 Double points:

The double points on the surface are:

$$P_3 = (0, 0, 0, 1) = \ell_0 \cap \ell_1$$

$$P_{1919} = (14, 6, 6, 1) = \ell_2 \cap \ell_6$$

$$P_{2431} = (14, 6, 8, 1) = \ell_2 \cap \ell_9$$

$$P_{2181} = (4, 7, 7, 1) = \ell_3 \cap \ell_7$$

$$P_{1157} = (4, 7, 3, 1) = \ell_3 \cap \ell_8$$

$$P_{1754} = (9, 12, 5, 1) = \ell_4 \cap \ell_6$$

$$P_{3546} = (9, 12, 12, 1) = \ell_4 \cap \ell_8$$

$$P_{4323} = (2, 13, 15, 1) = \ell_5 \cap \ell_7$$

$$P_{3811} = (2, 13, 13, 1) = \ell_5 \cap \ell_9$$

Single Points

The surface has 141 single points:

The single points on the surface are:

0 : $P_1 = (0, 1, 0, 0)$ lies on line ℓ_0
 1 : $P_{125} = (10, 6, 1, 0)$ lies on line ℓ_6
 2 : $P_{141} = (10, 7, 1, 0)$ lies on line ℓ_7
 3 : $P_{222} = (11, 12, 1, 0)$ lies on line ℓ_8
 4 : $P_{238} = (11, 13, 1, 0)$ lies on line ℓ_9
 5 : $P_{290} = (0, 1, 0, 1)$ lies on line ℓ_0
 6 : $P_{306} = (0, 2, 0, 1)$ lies on line ℓ_0
 7 : $P_{322} = (0, 3, 0, 1)$ lies on line ℓ_0
 8 : $P_{338} = (0, 4, 0, 1)$ lies on line ℓ_0
 9 : $P_{354} = (0, 5, 0, 1)$ lies on line ℓ_0
 10 : $P_{370} = (0, 6, 0, 1)$ lies on line ℓ_0
 11 : $P_{384} = (14, 6, 0, 1)$ lies on line ℓ_2
 12 : $P_{386} = (0, 7, 0, 1)$ lies on line ℓ_0
 13 : $P_{390} = (4, 7, 0, 1)$ lies on line ℓ_3
 14 : $P_{402} = (0, 8, 0, 1)$ lies on line ℓ_0
 15 : $P_{418} = (0, 9, 0, 1)$ lies on line ℓ_0
 16 : $P_{466} = (0, 12, 0, 1)$ lies on line ℓ_0
 17 : $P_{475} = (9, 12, 0, 1)$ lies on line ℓ_4
 18 : $P_{482} = (0, 13, 0, 1)$ lies on line ℓ_0
 19 : $P_{484} = (2, 13, 0, 1)$ lies on line ℓ_5
 20 : $P_{498} = (0, 14, 0, 1)$ lies on line ℓ_0
 21 : $P_{514} = (0, 15, 0, 1)$ lies on line ℓ_0
 22 : $P_{530} = (0, 0, 1, 1)$ lies on line ℓ_1
 23 : $P_{636} = (11, 6, 1, 1)$ lies on line ℓ_8
 24 : $P_{639} = (14, 6, 1, 1)$ lies on line ℓ_2
 25 : $P_{645} = (4, 7, 1, 1)$ lies on line ℓ_3
 26 : $P_{652} = (11, 7, 1, 1)$ lies on line ℓ_9
 27 : $P_{730} = (9, 12, 1, 1)$ lies on line ℓ_4
 28 : $P_{731} = (10, 12, 1, 1)$ lies on line ℓ_7
 29 : $P_{739} = (2, 13, 1, 1)$ lies on line ℓ_5
 30 : $P_{747} = (10, 13, 1, 1)$ lies on line ℓ_6
 31 : $P_{785} = (0, 0, 2, 1)$ lies on line ℓ_1
 32 : $P_{878} = (13, 5, 2, 1)$ lies on line ℓ_7
 33 : $P_{895} = (14, 6, 2, 1)$ lies on line ℓ_2
 34 : $P_{901} = (4, 7, 2, 1)$ lies on line ℓ_3
 35 : $P_{910} = (13, 7, 2, 1)$ lies on line ℓ_6
 36 : $P_{944} = (15, 9, 2, 1)$ lies on line ℓ_9
 37 : $P_{976} = (15, 11, 2, 1)$ lies on line ℓ_8
 38 : $P_{986} = (9, 12, 2, 1)$ lies on line ℓ_4
 39 : $P_{995} = (2, 13, 2, 1)$ lies on line ℓ_5
 40 : $P_{1041} = (0, 0, 3, 1)$ lies on line ℓ_1
 41 : $P_{1064} = (7, 1, 3, 1)$ lies on line ℓ_6
 42 : $P_{1080} = (7, 2, 3, 1)$ lies on line ℓ_7
 43 : $P_{1109} = (4, 4, 3, 1)$ lies on line ℓ_9
 44 : $P_{1151} = (14, 6, 3, 1)$ lies on line ℓ_2
 45 : $P_{1242} = (9, 12, 3, 1)$ lies on line ℓ_4
 46 : $P_{1251} = (2, 13, 3, 1)$ lies on line ℓ_5
 47 : $P_{1297} = (0, 0, 4, 1)$ lies on line ℓ_1
 48 : $P_{1407} = (14, 6, 4, 1)$ lies on line ℓ_2
 49 : $P_{1413} = (4, 7, 4, 1)$ lies on line ℓ_3
 50 : $P_{1432} = (7, 8, 4, 1)$ lies on line ℓ_8
 51 : $P_{1460} = (3, 10, 4, 1)$ lies on line ℓ_6
 52 : $P_{1496} = (7, 12, 4, 1)$ lies on line ℓ_9
 53 : $P_{1498} = (9, 12, 4, 1)$ lies on line ℓ_4

54 : $P_{1507} = (2, 13, 4, 1)$ lies on line ℓ_5
 55 : $P_{1524} = (3, 14, 4, 1)$ lies on line ℓ_7
 56 : $P_{1553} = (0, 0, 5, 1)$ lies on line ℓ_1
 57 : $P_{1581} = (12, 1, 5, 1)$ lies on line ℓ_9
 58 : $P_{1629} = (12, 4, 5, 1)$ lies on line ℓ_8
 59 : $P_{1663} = (14, 6, 5, 1)$ lies on line ℓ_2
 60 : $P_{1669} = (4, 7, 5, 1)$ lies on line ℓ_3
 61 : $P_{1706} = (9, 9, 5, 1)$ lies on line ℓ_7
 62 : $P_{1763} = (2, 13, 5, 1)$ lies on line ℓ_5
 63 : $P_{1809} = (0, 0, 6, 1)$ lies on line ℓ_1
 64 : $P_{1823} = (14, 0, 6, 1)$ lies on line ℓ_7
 65 : $P_{1925} = (4, 7, 6, 1)$ lies on line ℓ_3
 66 : $P_{1961} = (8, 9, 6, 1)$ lies on line ℓ_8
 67 : $P_{2010} = (9, 12, 6, 1)$ lies on line ℓ_4
 68 : $P_{2019} = (2, 13, 6, 1)$ lies on line ℓ_5
 69 : $P_{2057} = (8, 15, 6, 1)$ lies on line ℓ_9
 70 : $P_{2065} = (0, 0, 7, 1)$ lies on line ℓ_1
 71 : $P_{2069} = (4, 0, 7, 1)$ lies on line ℓ_6
 72 : $P_{2100} = (3, 2, 7, 1)$ lies on line ℓ_9
 73 : $P_{2148} = (3, 5, 7, 1)$ lies on line ℓ_8
 74 : $P_{2175} = (14, 6, 7, 1)$ lies on line ℓ_2
 75 : $P_{2266} = (9, 12, 7, 1)$ lies on line ℓ_4
 76 : $P_{2275} = (2, 13, 7, 1)$ lies on line ℓ_5
 77 : $P_{2321} = (0, 0, 8, 1)$ lies on line ℓ_1
 78 : $P_{2343} = (6, 1, 8, 1)$ lies on line ℓ_7
 79 : $P_{2437} = (4, 7, 8, 1)$ lies on line ℓ_3
 80 : $P_{2471} = (6, 9, 8, 1)$ lies on line ℓ_6
 81 : $P_{2522} = (9, 12, 8, 1)$ lies on line ℓ_4
 82 : $P_{2531} = (2, 13, 8, 1)$ lies on line ℓ_5
 83 : $P_{2559} = (14, 14, 8, 1)$ lies on line ℓ_8
 84 : $P_{2577} = (0, 0, 9, 1)$ lies on line ℓ_1
 85 : $P_{2614} = (5, 2, 9, 1)$ lies on line ℓ_8
 86 : $P_{2685} = (12, 6, 9, 1)$ lies on line ℓ_7
 87 : $P_{2687} = (14, 6, 9, 1)$ lies on line ℓ_2
 88 : $P_{2693} = (4, 7, 9, 1)$ lies on line ℓ_3
 89 : $P_{2758} = (5, 11, 9, 1)$ lies on line ℓ_9
 90 : $P_{2778} = (9, 12, 9, 1)$ lies on line ℓ_4
 91 : $P_{2787} = (2, 13, 9, 1)$ lies on line ℓ_5
 92 : $P_{2829} = (12, 15, 9, 1)$ lies on line ℓ_6
 93 : $P_{2833} = (0, 0, 10, 1)$ lies on line ℓ_1
 94 : $P_{2914} = (1, 5, 10, 1)$ lies on line ℓ_9
 95 : $P_{2924} = (11, 5, 10, 1)$ lies on line ℓ_6
 96 : $P_{2943} = (14, 6, 10, 1)$ lies on line ℓ_2
 97 : $P_{2949} = (4, 7, 10, 1)$ lies on line ℓ_3
 98 : $P_{3034} = (9, 12, 10, 1)$ lies on line ℓ_4
 99 : $P_{3043} = (2, 13, 10, 1)$ lies on line ℓ_5
 100 : $P_{3074} = (1, 15, 10, 1)$ lies on line ℓ_8
 101 : $P_{3084} = (11, 15, 10, 1)$ lies on line ℓ_7
 102 : $P_{3089} = (0, 0, 11, 1)$ lies on line ℓ_1
 103 : $P_{3138} = (1, 3, 11, 1)$ lies on line ℓ_6
 104 : $P_{3147} = (10, 3, 11, 1)$ lies on line ℓ_8
 105 : $P_{3199} = (14, 6, 11, 1)$ lies on line ℓ_2
 106 : $P_{3205} = (4, 7, 11, 1)$ lies on line ℓ_3
 107 : $P_{3218} = (1, 8, 11, 1)$ lies on line ℓ_7

108 : $P_{3227} = (10, 8, 11, 1)$ lies on line ℓ_9
 109 : $P_{3290} = (9, 12, 11, 1)$ lies on line ℓ_4
 110 : $P_{3299} = (2, 13, 11, 1)$ lies on line ℓ_5
 111 : $P_{3345} = (0, 0, 12, 1)$ lies on line ℓ_1
 112 : $P_{3354} = (9, 0, 12, 1)$ lies on line ℓ_9
 113 : $P_{3414} = (5, 4, 12, 1)$ lies on line ℓ_7
 114 : $P_{3455} = (14, 6, 12, 1)$ lies on line ℓ_2
 115 : $P_{3461} = (4, 7, 12, 1)$ lies on line ℓ_3
 116 : $P_{3478} = (5, 8, 12, 1)$ lies on line ℓ_6
 117 : $P_{3555} = (2, 13, 12, 1)$ lies on line ℓ_5
 118 : $P_{3601} = (0, 0, 13, 1)$ lies on line ℓ_1
 119 : $P_{3603} = (2, 0, 13, 1)$ lies on line ℓ_8
 120 : $P_{3664} = (15, 3, 13, 1)$ lies on line ℓ_7
 121 : $P_{3711} = (14, 6, 13, 1)$ lies on line ℓ_2
 122 : $P_{3717} = (4, 7, 13, 1)$ lies on line ℓ_3
 123 : $P_{3802} = (9, 12, 13, 1)$ lies on line ℓ_4
 124 : $P_{3840} = (15, 14, 13, 1)$ lies on line ℓ_6

125 : $P_{3857} = (0, 0, 14, 1)$ lies on line ℓ_1
 126 : $P_{3911} = (6, 3, 14, 1)$ lies on line ℓ_9
 127 : $P_{3929} = (8, 4, 14, 1)$ lies on line ℓ_6
 128 : $P_{3967} = (14, 6, 14, 1)$ lies on line ℓ_2
 129 : $P_{3973} = (4, 7, 14, 1)$ lies on line ℓ_3
 130 : $P_{4025} = (8, 10, 14, 1)$ lies on line ℓ_7
 131 : $P_{4058} = (9, 12, 14, 1)$ lies on line ℓ_4
 132 : $P_{4067} = (2, 13, 14, 1)$ lies on line ℓ_5
 133 : $P_{4071} = (6, 13, 14, 1)$ lies on line ℓ_8
 134 : $P_{4113} = (0, 0, 15, 1)$ lies on line ℓ_1
 135 : $P_{4142} = (13, 1, 15, 1)$ lies on line ℓ_8
 136 : $P_{4147} = (2, 2, 15, 1)$ lies on line ℓ_6
 137 : $P_{4223} = (14, 6, 15, 1)$ lies on line ℓ_2
 138 : $P_{4229} = (4, 7, 15, 1)$ lies on line ℓ_3
 139 : $P_{4314} = (9, 12, 15, 1)$ lies on line ℓ_4
 140 : $P_{4350} = (13, 14, 15, 1)$ lies on line ℓ_9

The single points on the surface are:

Points on surface but on no line

The surface has 168 points not on any line:

The points on the surface but not on lines are:

0 : $P_0 = (1, 0, 0, 0)$	27 : $P_{826} = (9, 2, 2, 1)$
1 : $P_4 = (1, 1, 1, 1)$	28 : $P_{829} = (12, 2, 2, 1)$
2 : $P_{36} = (1, 1, 1, 0)$	29 : $P_{841} = (8, 3, 2, 1)$
3 : $P_{120} = (5, 6, 1, 0)$	30 : $P_{875} = (10, 5, 2, 1)$
4 : $P_{146} = (15, 7, 1, 0)$	31 : $P_{891} = (10, 6, 2, 1)$
5 : $P_{182} = (3, 10, 1, 0)$	32 : $P_{943} = (14, 9, 2, 1)$
6 : $P_{187} = (8, 10, 1, 0)$	33 : $P_{965} = (4, 11, 2, 1)$
7 : $P_{200} = (5, 11, 1, 0)$	34 : $P_{1005} = (12, 13, 2, 1)$
8 : $P_{210} = (15, 11, 1, 0)$	35 : $P_{1053} = (12, 0, 3, 1)$
9 : $P_{214} = (3, 12, 1, 0)$	36 : $P_{1071} = (14, 1, 3, 1)$
10 : $P_{235} = (8, 13, 1, 0)$	37 : $P_{1107} = (2, 4, 3, 1)$
11 : $P_{275} = (1, 0, 0, 1)$	38 : $P_{1143} = (6, 6, 3, 1)$
12 : $P_{314} = (8, 2, 0, 1)$	39 : $P_{1154} = (1, 7, 3, 1)$
13 : $P_{334} = (12, 3, 0, 1)$	40 : $P_{1178} = (9, 8, 3, 1)$
14 : $P_{353} = (15, 4, 0, 1)$	41 : $P_{1239} = (6, 12, 3, 1)$
15 : $P_{360} = (6, 5, 0, 1)$	42 : $P_{1252} = (3, 13, 3, 1)$
16 : $P_{415} = (13, 8, 0, 1)$	43 : $P_{1266} = (1, 14, 3, 1)$
17 : $P_{421} = (3, 9, 0, 1)$	44 : $P_{1277} = (12, 14, 3, 1)$
18 : $P_{444} = (10, 10, 0, 1)$	45 : $P_{1312} = (15, 0, 4, 1)$
19 : $P_{461} = (11, 11, 0, 1)$	46 : $P_{1367} = (6, 4, 4, 1)$
20 : $P_{503} = (5, 14, 0, 1)$	47 : $P_{1375} = (14, 4, 4, 1)$
21 : $P_{521} = (7, 15, 0, 1)$	48 : $P_{1392} = (15, 5, 4, 1)$
22 : $P_{693} = (4, 10, 1, 1)$	49 : $P_{1415} = (6, 7, 4, 1)$
23 : $P_{703} = (14, 10, 1, 1)$	50 : $P_{1436} = (11, 8, 4, 1)$
24 : $P_{707} = (2, 11, 1, 1)$	51 : $P_{1466} = (9, 10, 4, 1)$
25 : $P_{714} = (9, 11, 1, 1)$	52 : $P_{1516} = (11, 13, 4, 1)$
26 : $P_{793} = (8, 0, 2, 1)$	53 : $P_{1523} = (2, 14, 4, 1)$

54 : $P_{1559} = (6, 0, 5, 1)$	108 : $P_{2933} = (4, 6, 10, 1)$
55 : $P_{1571} = (2, 1, 5, 1)$	109 : $P_{2959} = (14, 7, 10, 1)$
56 : $P_{1586} = (1, 2, 5, 1)$	110 : $P_{2963} = (2, 8, 10, 1)$
57 : $P_{1591} = (6, 2, 5, 1)$	111 : $P_{2969} = (8, 8, 10, 1)$
58 : $P_{1662} = (13, 6, 5, 1)$	112 : $P_{2998} = (5, 10, 10, 1)$
59 : $P_{1670} = (5, 7, 5, 1)$	113 : $P_{3008} = (15, 10, 10, 1)$
60 : $P_{1701} = (4, 9, 5, 1)$	114 : $P_{3028} = (3, 12, 10, 1)$
61 : $P_{1746} = (1, 12, 5, 1)$	115 : $P_{3049} = (8, 13, 10, 1)$
62 : $P_{1774} = (13, 13, 5, 1)$	116 : $P_{3100} = (11, 0, 11, 1)$
63 : $P_{1807} = (14, 15, 5, 1)$	117 : $P_{3108} = (3, 1, 11, 1)$
64 : $P_{1862} = (5, 3, 6, 1)$	118 : $P_{3113} = (8, 1, 11, 1)$
65 : $P_{1870} = (13, 3, 6, 1)$	119 : $P_{3174} = (5, 5, 11, 1)$
66 : $P_{1883} = (10, 4, 6, 1)$	120 : $P_{3183} = (14, 5, 11, 1)$
67 : $P_{1907} = (2, 6, 6, 1)$	121 : $P_{3190} = (5, 6, 11, 1)$
68 : $P_{1963} = (10, 9, 6, 1)$	122 : $P_{3216} = (15, 7, 11, 1)$
69 : $P_{1991} = (6, 11, 6, 1)$	123 : $P_{3268} = (3, 11, 11, 1)$
70 : $P_{1998} = (13, 11, 6, 1)$	124 : $P_{3273} = (8, 11, 11, 1)$
71 : $P_{2005} = (4, 12, 6, 1)$	125 : $P_{3283} = (2, 12, 11, 1)$
72 : $P_{2022} = (5, 13, 6, 1)$	126 : $P_{3306} = (9, 13, 11, 1)$
73 : $P_{2058} = (9, 15, 6, 1)$	127 : $P_{3333} = (4, 15, 11, 1)$
74 : $P_{2107} = (10, 2, 7, 1)$	128 : $P_{3344} = (15, 15, 11, 1)$
75 : $P_{2147} = (2, 5, 7, 1)$	129 : $P_{3388} = (11, 2, 12, 1)$
76 : $P_{2186} = (9, 7, 7, 1)$	130 : $P_{3420} = (11, 4, 12, 1)$
77 : $P_{2205} = (12, 8, 7, 1)$	131 : $P_{3444} = (3, 6, 12, 1)$
78 : $P_{2208} = (15, 8, 7, 1)$	132 : $P_{3459} = (2, 7, 12, 1)$
79 : $P_{2248} = (7, 11, 7, 1)$	133 : $P_{3477} = (4, 8, 12, 1)$
80 : $P_{2253} = (12, 11, 7, 1)$	134 : $P_{3511} = (6, 10, 12, 1)$
81 : $P_{2272} = (15, 12, 7, 1)$	135 : $P_{3517} = (12, 10, 12, 1)$
82 : $P_{2287} = (14, 13, 7, 1)$	136 : $P_{3551} = (14, 12, 12, 1)$
83 : $P_{2299} = (10, 14, 7, 1)$	137 : $P_{3588} = (3, 15, 12, 1)$
84 : $P_{2334} = (13, 0, 8, 1)$	138 : $P_{3591} = (6, 15, 12, 1)$
85 : $P_{2341} = (4, 1, 8, 1)$	139 : $P_{3663} = (14, 3, 13, 1)$
86 : $P_{2371} = (2, 3, 8, 1)$	140 : $P_{3688} = (7, 5, 13, 1)$
87 : $P_{2386} = (1, 4, 8, 1)$	141 : $P_{3689} = (8, 5, 13, 1)$
88 : $P_{2398} = (13, 4, 8, 1)$	142 : $P_{3706} = (9, 6, 13, 1)$
89 : $P_{2418} = (1, 6, 8, 1)$	143 : $P_{3721} = (8, 7, 13, 1)$
90 : $P_{2440} = (7, 7, 8, 1)$	144 : $P_{3756} = (11, 9, 13, 1)$
91 : $P_{2521} = (8, 12, 8, 1)$	145 : $P_{3768} = (7, 10, 13, 1)$
92 : $P_{2536} = (7, 13, 8, 1)$	146 : $P_{3774} = (13, 10, 13, 1)$
93 : $P_{2554} = (9, 14, 8, 1)$	147 : $P_{3813} = (4, 13, 13, 1)$
94 : $P_{2580} = (3, 0, 9, 1)$	148 : $P_{3836} = (11, 14, 13, 1)$
95 : $P_{2613} = (4, 2, 9, 1)$	149 : $P_{3862} = (5, 0, 14, 1)$
96 : $P_{2699} = (10, 7, 9, 1)$	150 : $P_{3916} = (11, 3, 14, 1)$
97 : $P_{2708} = (3, 8, 9, 1)$	151 : $P_{3930} = (9, 4, 14, 1)$
98 : $P_{2723} = (2, 9, 9, 1)$	152 : $P_{3960} = (7, 6, 14, 1)$
99 : $P_{2734} = (13, 9, 9, 1)$	153 : $P_{4019} = (2, 10, 14, 1)$
100 : $P_{2767} = (14, 11, 9, 1)$	154 : $P_{4060} = (11, 12, 14, 1)$
101 : $P_{2782} = (13, 12, 9, 1)$	155 : $P_{4085} = (4, 14, 14, 1)$
102 : $P_{2827} = (10, 15, 9, 1)$	156 : $P_{4088} = (7, 14, 14, 1)$
103 : $P_{2843} = (10, 0, 10, 1)$	157 : $P_{4102} = (5, 15, 14, 1)$
104 : $P_{2854} = (5, 1, 10, 1)$	158 : $P_{4120} = (7, 0, 15, 1)$
105 : $P_{2864} = (15, 1, 10, 1)$	159 : $P_{4138} = (9, 1, 15, 1)$
106 : $P_{2884} = (3, 3, 10, 1)$	160 : $P_{4159} = (14, 2, 15, 1)$
107 : $P_{2890} = (9, 3, 10, 1)$	161 : $P_{4197} = (4, 5, 15, 1)$

162 : $P_{4224} = (15, 6, 15, 1)$
 163 : $P_{4237} = (12, 7, 15, 1)$
 164 : $P_{4258} = (1, 9, 15, 1)$
 165 : $P_{4264} = (7, 9, 15, 1)$

166 : $P_{4317} = (12, 12, 15, 1)$
 167 : $P_{4322} = (1, 13, 15, 1)$

Line Intersection Graph

	0	1	2	3	4	5	6	7	8	9
0	0	1	0	0	0	0	1	1	1	1
1	1	0	1	1	1	1	0	0	0	0
2	0	1	0	1	1	1	1	0	0	1
3	0	1	1	0	1	1	0	1	1	0
4	0	1	1	1	0	1	1	0	1	0
5	0	1	1	1	1	0	0	1	0	1
6	1	0	1	0	1	0	0	1	0	0
7	1	0	0	1	0	1	1	0	0	0
8	1	0	0	1	1	0	0	0	0	1
9	1	0	1	0	0	1	0	0	1	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_6	ℓ_7	ℓ_8	ℓ_9
in point	P_3	P_{450}	P_{450}	P_{434}	P_{434}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5
in point	P_3	P_2	P_2	P_2	P_2

Line 2 intersects

Line	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_9
in point	P_2	P_2	P_2	P_2	P_{1919}	P_{2431}

Line 3 intersects

Line	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_7	ℓ_8
in point	P_2	P_2	P_2	P_2	P_{2181}	P_{1157}

Line 4 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_8
in point	P_2	P_2	P_2	P_2	P_{1754}	P_{3546}

Line 5 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_7	ℓ_9
in point	P_2	P_2	P_2	P_2	P_{4323}	P_{3811}

Line 6 intersects

Line	ℓ_0	ℓ_2	ℓ_4	ℓ_7
in point	P_{450}	P_{1919}	P_{1754}	P_{450}

Line 7 intersects

Line	ℓ_0	ℓ_3	ℓ_5	ℓ_6
in point	P_{450}	P_{2181}	P_{4323}	P_{450}

Line 8 intersects

Line	ℓ_0	ℓ_3	ℓ_4	ℓ_9
in point	P_{434}	P_{1157}	P_{3546}	P_{434}

Line 9 intersects

Line	ℓ_0	ℓ_2	ℓ_5	ℓ_8
in point	P_{434}	P_{2431}	P_{3811}	P_{434}

The surface has 321 points:

The points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$	54 : $P_{703} = (14, 10, 1, 1)$	108 : $P_{1466} = (9, 10, 4, 1)$
1 : $P_1 = (0, 1, 0, 0)$	55 : $P_{707} = (2, 11, 1, 1)$	109 : $P_{1496} = (7, 12, 4, 1)$
2 : $P_2 = (0, 0, 1, 0)$	56 : $P_{714} = (9, 11, 1, 1)$	110 : $P_{1498} = (9, 12, 4, 1)$
3 : $P_3 = (0, 0, 0, 1)$	57 : $P_{730} = (9, 12, 1, 1)$	111 : $P_{1507} = (2, 13, 4, 1)$
4 : $P_4 = (1, 1, 1, 1)$	58 : $P_{731} = (10, 12, 1, 1)$	112 : $P_{1516} = (11, 13, 4, 1)$
5 : $P_{36} = (1, 1, 1, 0)$	59 : $P_{739} = (2, 13, 1, 1)$	113 : $P_{1523} = (2, 14, 4, 1)$
6 : $P_{120} = (5, 6, 1, 0)$	60 : $P_{747} = (10, 13, 1, 1)$	114 : $P_{1524} = (3, 14, 4, 1)$
7 : $P_{125} = (10, 6, 1, 0)$	61 : $P_{785} = (0, 0, 2, 1)$	115 : $P_{1553} = (0, 0, 5, 1)$
8 : $P_{141} = (10, 7, 1, 0)$	62 : $P_{793} = (8, 0, 2, 1)$	116 : $P_{1559} = (6, 0, 5, 1)$
9 : $P_{146} = (15, 7, 1, 0)$	63 : $P_{826} = (9, 2, 2, 1)$	117 : $P_{1571} = (2, 1, 5, 1)$
10 : $P_{182} = (3, 10, 1, 0)$	64 : $P_{829} = (12, 2, 2, 1)$	118 : $P_{1581} = (12, 1, 5, 1)$
11 : $P_{187} = (8, 10, 1, 0)$	65 : $P_{841} = (8, 3, 2, 1)$	119 : $P_{1586} = (1, 2, 5, 1)$
12 : $P_{200} = (5, 11, 1, 0)$	66 : $P_{875} = (10, 5, 2, 1)$	120 : $P_{1591} = (6, 2, 5, 1)$
13 : $P_{210} = (15, 11, 1, 0)$	67 : $P_{878} = (13, 5, 2, 1)$	121 : $P_{1629} = (12, 4, 5, 1)$
14 : $P_{214} = (3, 12, 1, 0)$	68 : $P_{891} = (10, 6, 2, 1)$	122 : $P_{1662} = (13, 6, 5, 1)$
15 : $P_{222} = (11, 12, 1, 0)$	69 : $P_{895} = (14, 6, 2, 1)$	123 : $P_{1663} = (14, 6, 5, 1)$
16 : $P_{235} = (8, 13, 1, 0)$	70 : $P_{901} = (4, 7, 2, 1)$	124 : $P_{1669} = (4, 7, 5, 1)$
17 : $P_{238} = (11, 13, 1, 0)$	71 : $P_{910} = (13, 7, 2, 1)$	125 : $P_{1670} = (5, 7, 5, 1)$
18 : $P_{275} = (1, 0, 0, 1)$	72 : $P_{943} = (14, 9, 2, 1)$	126 : $P_{1701} = (4, 9, 5, 1)$
19 : $P_{290} = (0, 1, 0, 1)$	73 : $P_{944} = (15, 9, 2, 1)$	127 : $P_{1706} = (9, 9, 5, 1)$
20 : $P_{306} = (0, 2, 0, 1)$	74 : $P_{965} = (4, 11, 2, 1)$	128 : $P_{1746} = (1, 12, 5, 1)$
21 : $P_{314} = (8, 2, 0, 1)$	75 : $P_{976} = (15, 11, 2, 1)$	129 : $P_{1754} = (9, 12, 5, 1)$
22 : $P_{322} = (0, 3, 0, 1)$	76 : $P_{986} = (9, 12, 2, 1)$	130 : $P_{1763} = (2, 13, 5, 1)$
23 : $P_{334} = (12, 3, 0, 1)$	77 : $P_{995} = (2, 13, 2, 1)$	131 : $P_{1774} = (13, 13, 5, 1)$
24 : $P_{338} = (0, 4, 0, 1)$	78 : $P_{1005} = (12, 13, 2, 1)$	132 : $P_{1807} = (14, 15, 5, 1)$
25 : $P_{353} = (15, 4, 0, 1)$	79 : $P_{1041} = (0, 0, 3, 1)$	133 : $P_{1809} = (0, 0, 6, 1)$
26 : $P_{354} = (0, 5, 0, 1)$	80 : $P_{1053} = (12, 0, 3, 1)$	134 : $P_{1823} = (14, 0, 6, 1)$
27 : $P_{360} = (6, 5, 0, 1)$	81 : $P_{1064} = (7, 1, 3, 1)$	135 : $P_{1862} = (5, 3, 6, 1)$
28 : $P_{370} = (0, 6, 0, 1)$	82 : $P_{1071} = (14, 1, 3, 1)$	136 : $P_{1870} = (13, 3, 6, 1)$
29 : $P_{384} = (14, 6, 0, 1)$	83 : $P_{1080} = (7, 2, 3, 1)$	137 : $P_{1883} = (10, 4, 6, 1)$
30 : $P_{386} = (0, 7, 0, 1)$	84 : $P_{1107} = (2, 4, 3, 1)$	138 : $P_{1907} = (2, 6, 6, 1)$
31 : $P_{390} = (4, 7, 0, 1)$	85 : $P_{1109} = (4, 4, 3, 1)$	139 : $P_{1919} = (14, 6, 6, 1)$
32 : $P_{402} = (0, 8, 0, 1)$	86 : $P_{1143} = (6, 6, 3, 1)$	140 : $P_{1925} = (4, 7, 6, 1)$
33 : $P_{415} = (13, 8, 0, 1)$	87 : $P_{1151} = (14, 6, 3, 1)$	141 : $P_{1961} = (8, 9, 6, 1)$
34 : $P_{418} = (0, 9, 0, 1)$	88 : $P_{1154} = (1, 7, 3, 1)$	142 : $P_{1963} = (10, 9, 6, 1)$
35 : $P_{421} = (3, 9, 0, 1)$	89 : $P_{1157} = (4, 7, 3, 1)$	143 : $P_{1991} = (6, 11, 6, 1)$
36 : $P_{434} = (0, 10, 0, 1)$	90 : $P_{1178} = (9, 8, 3, 1)$	144 : $P_{1998} = (13, 11, 6, 1)$
37 : $P_{444} = (10, 10, 0, 1)$	91 : $P_{1239} = (6, 12, 3, 1)$	145 : $P_{2005} = (4, 12, 6, 1)$
38 : $P_{450} = (0, 11, 0, 1)$	92 : $P_{1242} = (9, 12, 3, 1)$	146 : $P_{2010} = (9, 12, 6, 1)$
39 : $P_{461} = (11, 11, 0, 1)$	93 : $P_{1251} = (2, 13, 3, 1)$	147 : $P_{2019} = (2, 13, 6, 1)$
40 : $P_{466} = (0, 12, 0, 1)$	94 : $P_{1252} = (3, 13, 3, 1)$	148 : $P_{2022} = (5, 13, 6, 1)$
41 : $P_{475} = (9, 12, 0, 1)$	95 : $P_{1266} = (1, 14, 3, 1)$	149 : $P_{2057} = (8, 15, 6, 1)$
42 : $P_{482} = (0, 13, 0, 1)$	96 : $P_{1277} = (12, 14, 3, 1)$	150 : $P_{2058} = (9, 15, 6, 1)$
43 : $P_{484} = (2, 13, 0, 1)$	97 : $P_{1297} = (0, 0, 4, 1)$	151 : $P_{2065} = (0, 0, 7, 1)$
44 : $P_{498} = (0, 14, 0, 1)$	98 : $P_{1312} = (15, 0, 4, 1)$	152 : $P_{2069} = (4, 0, 7, 1)$
45 : $P_{503} = (5, 14, 0, 1)$	99 : $P_{1367} = (6, 4, 4, 1)$	153 : $P_{2100} = (3, 2, 7, 1)$
46 : $P_{514} = (0, 15, 0, 1)$	100 : $P_{1375} = (14, 4, 4, 1)$	154 : $P_{2107} = (10, 2, 7, 1)$
47 : $P_{521} = (7, 15, 0, 1)$	101 : $P_{1392} = (15, 5, 4, 1)$	155 : $P_{2147} = (2, 5, 7, 1)$
48 : $P_{530} = (0, 0, 1, 1)$	102 : $P_{1407} = (14, 6, 4, 1)$	156 : $P_{2148} = (3, 5, 7, 1)$
49 : $P_{636} = (11, 6, 1, 1)$	103 : $P_{1413} = (4, 7, 4, 1)$	157 : $P_{2175} = (14, 6, 7, 1)$
50 : $P_{639} = (14, 6, 1, 1)$	104 : $P_{1415} = (6, 7, 4, 1)$	158 : $P_{2181} = (4, 7, 7, 1)$
51 : $P_{645} = (4, 7, 1, 1)$	105 : $P_{1432} = (7, 8, 4, 1)$	159 : $P_{2186} = (9, 7, 7, 1)$
52 : $P_{652} = (11, 7, 1, 1)$	106 : $P_{1436} = (11, 8, 4, 1)$	160 : $P_{2205} = (12, 8, 7, 1)$
53 : $P_{693} = (4, 10, 1, 1)$	107 : $P_{1460} = (3, 10, 4, 1)$	161 : $P_{2208} = (15, 8, 7, 1)$

162 : $P_{2248} = (7, 11, 7, 1)$	216 : $P_{2959} = (14, 7, 10, 1)$	270 : $P_{3664} = (15, 3, 13, 1)$
163 : $P_{2253} = (12, 11, 7, 1)$	217 : $P_{2963} = (2, 8, 10, 1)$	271 : $P_{3688} = (7, 5, 13, 1)$
164 : $P_{2266} = (9, 12, 7, 1)$	218 : $P_{2969} = (8, 8, 10, 1)$	272 : $P_{3689} = (8, 5, 13, 1)$
165 : $P_{2272} = (15, 12, 7, 1)$	219 : $P_{2998} = (5, 10, 10, 1)$	273 : $P_{3706} = (9, 6, 13, 1)$
166 : $P_{2275} = (2, 13, 7, 1)$	220 : $P_{3008} = (15, 10, 10, 1)$	274 : $P_{3711} = (14, 6, 13, 1)$
167 : $P_{2287} = (14, 13, 7, 1)$	221 : $P_{3028} = (3, 12, 10, 1)$	275 : $P_{3717} = (4, 7, 13, 1)$
168 : $P_{2299} = (10, 14, 7, 1)$	222 : $P_{3034} = (9, 12, 10, 1)$	276 : $P_{3721} = (8, 7, 13, 1)$
169 : $P_{2321} = (0, 0, 8, 1)$	223 : $P_{3043} = (2, 13, 10, 1)$	277 : $P_{3756} = (11, 9, 13, 1)$
170 : $P_{2334} = (13, 0, 8, 1)$	224 : $P_{3049} = (8, 13, 10, 1)$	278 : $P_{3768} = (7, 10, 13, 1)$
171 : $P_{2341} = (4, 1, 8, 1)$	225 : $P_{3074} = (1, 15, 10, 1)$	279 : $P_{3774} = (13, 10, 13, 1)$
172 : $P_{2343} = (6, 1, 8, 1)$	226 : $P_{3084} = (11, 15, 10, 1)$	280 : $P_{3802} = (9, 12, 13, 1)$
173 : $P_{2371} = (2, 3, 8, 1)$	227 : $P_{3089} = (0, 0, 11, 1)$	281 : $P_{3811} = (2, 13, 13, 1)$
174 : $P_{2386} = (1, 4, 8, 1)$	228 : $P_{3100} = (11, 0, 11, 1)$	282 : $P_{3813} = (4, 13, 13, 1)$
175 : $P_{2398} = (13, 4, 8, 1)$	229 : $P_{3108} = (3, 1, 11, 1)$	283 : $P_{3836} = (11, 14, 13, 1)$
176 : $P_{2418} = (1, 6, 8, 1)$	230 : $P_{3113} = (8, 1, 11, 1)$	284 : $P_{3840} = (15, 14, 13, 1)$
177 : $P_{2431} = (14, 6, 8, 1)$	231 : $P_{3138} = (1, 3, 11, 1)$	285 : $P_{3857} = (0, 0, 14, 1)$
178 : $P_{2437} = (4, 7, 8, 1)$	232 : $P_{3147} = (10, 3, 11, 1)$	286 : $P_{3862} = (5, 0, 14, 1)$
179 : $P_{2440} = (7, 7, 8, 1)$	233 : $P_{3174} = (5, 5, 11, 1)$	287 : $P_{3911} = (6, 3, 14, 1)$
180 : $P_{2471} = (6, 9, 8, 1)$	234 : $P_{3183} = (14, 5, 11, 1)$	288 : $P_{3916} = (11, 3, 14, 1)$
181 : $P_{2521} = (8, 12, 8, 1)$	235 : $P_{3190} = (5, 6, 11, 1)$	289 : $P_{3929} = (8, 4, 14, 1)$
182 : $P_{2522} = (9, 12, 8, 1)$	236 : $P_{3199} = (14, 6, 11, 1)$	290 : $P_{3930} = (9, 4, 14, 1)$
183 : $P_{2531} = (2, 13, 8, 1)$	237 : $P_{3205} = (4, 7, 11, 1)$	291 : $P_{3960} = (7, 6, 14, 1)$
184 : $P_{2536} = (7, 13, 8, 1)$	238 : $P_{3216} = (15, 7, 11, 1)$	292 : $P_{3967} = (14, 6, 14, 1)$
185 : $P_{2554} = (9, 14, 8, 1)$	239 : $P_{3218} = (1, 8, 11, 1)$	293 : $P_{3973} = (4, 7, 14, 1)$
186 : $P_{2559} = (14, 14, 8, 1)$	240 : $P_{3227} = (10, 8, 11, 1)$	294 : $P_{4019} = (2, 10, 14, 1)$
187 : $P_{2577} = (0, 0, 9, 1)$	241 : $P_{3268} = (3, 11, 11, 1)$	295 : $P_{4025} = (8, 10, 14, 1)$
188 : $P_{2580} = (3, 0, 9, 1)$	242 : $P_{3273} = (8, 11, 11, 1)$	296 : $P_{4058} = (9, 12, 14, 1)$
189 : $P_{2613} = (4, 2, 9, 1)$	243 : $P_{3283} = (2, 12, 11, 1)$	297 : $P_{4060} = (11, 12, 14, 1)$
190 : $P_{2614} = (5, 2, 9, 1)$	244 : $P_{3290} = (9, 12, 11, 1)$	298 : $P_{4067} = (2, 13, 14, 1)$
191 : $P_{2685} = (12, 6, 9, 1)$	245 : $P_{3299} = (2, 13, 11, 1)$	299 : $P_{4071} = (6, 13, 14, 1)$
192 : $P_{2687} = (14, 6, 9, 1)$	246 : $P_{3306} = (9, 13, 11, 1)$	300 : $P_{4085} = (4, 14, 14, 1)$
193 : $P_{2693} = (4, 7, 9, 1)$	247 : $P_{3333} = (4, 15, 11, 1)$	301 : $P_{4088} = (7, 14, 14, 1)$
194 : $P_{2699} = (10, 7, 9, 1)$	248 : $P_{3344} = (15, 15, 11, 1)$	302 : $P_{4102} = (5, 15, 14, 1)$
195 : $P_{2708} = (3, 8, 9, 1)$	249 : $P_{3345} = (0, 0, 12, 1)$	303 : $P_{4113} = (0, 0, 15, 1)$
196 : $P_{2723} = (2, 9, 9, 1)$	250 : $P_{3354} = (9, 0, 12, 1)$	304 : $P_{4120} = (7, 0, 15, 1)$
197 : $P_{2734} = (13, 9, 9, 1)$	251 : $P_{3388} = (11, 2, 12, 1)$	305 : $P_{4138} = (9, 1, 15, 1)$
198 : $P_{2758} = (5, 11, 9, 1)$	252 : $P_{3414} = (5, 4, 12, 1)$	306 : $P_{4142} = (13, 1, 15, 1)$
199 : $P_{2767} = (14, 11, 9, 1)$	253 : $P_{3420} = (11, 4, 12, 1)$	307 : $P_{4147} = (2, 2, 15, 1)$
200 : $P_{2778} = (9, 12, 9, 1)$	254 : $P_{3444} = (3, 6, 12, 1)$	308 : $P_{4159} = (14, 2, 15, 1)$
201 : $P_{2782} = (13, 12, 9, 1)$	255 : $P_{3455} = (14, 6, 12, 1)$	309 : $P_{4197} = (4, 5, 15, 1)$
202 : $P_{2787} = (2, 13, 9, 1)$	256 : $P_{3459} = (2, 7, 12, 1)$	310 : $P_{4223} = (14, 6, 15, 1)$
203 : $P_{2827} = (10, 15, 9, 1)$	257 : $P_{3461} = (4, 7, 12, 1)$	311 : $P_{4224} = (15, 6, 15, 1)$
204 : $P_{2829} = (12, 15, 9, 1)$	258 : $P_{3477} = (4, 8, 12, 1)$	312 : $P_{4229} = (4, 7, 15, 1)$
205 : $P_{2833} = (0, 0, 10, 1)$	259 : $P_{3478} = (5, 8, 12, 1)$	313 : $P_{4237} = (12, 7, 15, 1)$
206 : $P_{2843} = (10, 0, 10, 1)$	260 : $P_{3511} = (6, 10, 12, 1)$	314 : $P_{4258} = (1, 9, 15, 1)$
207 : $P_{2854} = (5, 1, 10, 1)$	261 : $P_{3517} = (12, 10, 12, 1)$	315 : $P_{4264} = (7, 9, 15, 1)$
208 : $P_{2864} = (15, 1, 10, 1)$	262 : $P_{3546} = (9, 12, 12, 1)$	316 : $P_{4314} = (9, 12, 15, 1)$
209 : $P_{2884} = (3, 3, 10, 1)$	263 : $P_{3551} = (14, 12, 12, 1)$	317 : $P_{4317} = (12, 12, 15, 1)$
210 : $P_{2890} = (9, 3, 10, 1)$	264 : $P_{3555} = (2, 13, 12, 1)$	318 : $P_{4322} = (1, 13, 15, 1)$
211 : $P_{2914} = (1, 5, 10, 1)$	265 : $P_{3588} = (3, 15, 12, 1)$	319 : $P_{4323} = (2, 13, 15, 1)$
212 : $P_{2924} = (11, 5, 10, 1)$	266 : $P_{3591} = (6, 15, 12, 1)$	320 : $P_{4350} = (13, 14, 15, 1)$
213 : $P_{2933} = (4, 6, 10, 1)$	267 : $P_{3601} = (0, 0, 13, 1)$	
214 : $P_{2943} = (14, 6, 10, 1)$	268 : $P_{3603} = (2, 0, 13, 1)$	
215 : $P_{2949} = (4, 7, 10, 1)$	269 : $P_{3663} = (14, 3, 13, 1)$	