

Rank-74531 over GF(16)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(16) is 287379733

General information

Number of lines	10
Number of points	321
Number of singular points	1
Number of Eckardt points	0
Number of double points	15
Number of single points	135
Number of points off lines	170
Number of Hesse planes	0
Number of axes	0
Type of points on lines	17^{10}
Type of lines on points	$5, 2^{15}, 1^{135}, 0^{170}$

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:

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

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & \delta^{10} & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2986} = \begin{bmatrix} 1 & 10 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2986} = \mathbf{Pl}(0, 0, 11, 0, 0, 1)_{4966} \\
\ell_2 &= \begin{bmatrix} 1 & \delta^5 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3259} = \begin{bmatrix} 1 & 11 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{3259} = \mathbf{Pl}(0, 0, 10, 0, 0, 1)_{4935} \\
\ell_3 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{69889} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{69889} = \mathbf{Pl}(0, 0, 0, 1, 0, 1)_{5121} \\
\ell_4 &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{70160} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{70160} = \mathbf{Pl}(0, 1, 0, 0, 0, 0)_1 \\
\ell_5 &= \begin{bmatrix} 1 & \delta^5 & 0 & \delta^{10} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{46939} = \begin{bmatrix} 1 & 11 & 0 & 10 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{46939} = \mathbf{Pl}(0, 11, 10, 0, 0, 1)_{4961} \\
\ell_6 &= \begin{bmatrix} 1 & \delta^{10} & 0 & \delta^5 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{51034} = \begin{bmatrix} 1 & 10 & 0 & 11 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{51034} = \mathbf{Pl}(0, 10, 11, 0, 0, 1)_{4991} \\
\ell_7 &= \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{4658} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{4658} = \mathbf{Pl}(1, 0, 1, 1, 1, 1)_{9427} \\
\ell_8 &= \begin{bmatrix} 1 & 0 & \delta^{10} & \delta^5 \\ 0 & 1 & \delta^{10} & \delta^{10} \end{bmatrix}_{50948} = \begin{bmatrix} 1 & 0 & 10 & 11 \\ 0 & 1 & 10 & 10 \end{bmatrix}_{50948} = \mathbf{Pl}(1, 1, 11, 10, 1, 1)_{12111} \\
\ell_9 &= \begin{bmatrix} 1 & 0 & \delta^5 & \delta^{10} \\ 0 & 1 & \delta^5 & \delta^5 \end{bmatrix}_{46870} = \begin{bmatrix} 1 & 0 & 11 & 10 \\ 0 & 1 & 11 & 11 \end{bmatrix}_{46870} = \mathbf{Pl}(1, 1, 10, 11, 1, 1)_{11916}
\end{aligned}$$

Rank of lines: (0, 2986, 3259, 69889, 70160, 46939, 51034, 4658, 50948, 46870)

Rank of points on Klein quadric: (0, 4966, 4935, 5121, 1, 4961, 4991, 9427, 12111, 11916)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 15 Double points:

The double points on the surface are:

$$\begin{aligned}
P_{15} &= (11, 1, 0, 0) = \ell_0 \cap \ell_1 \\
P_{14} &= (10, 1, 0, 0) = \ell_0 \cap \ell_2 \\
P_1 &= (0, 1, 0, 0) = \ell_0 \cap \ell_3 \\
P_5 &= (1, 1, 0, 0) = \ell_0 \cap \ell_7 \\
P_{180} &= (1, 10, 1, 0) = \ell_1 \cap \ell_8 \\
P_{196} &= (1, 11, 1, 0) = \ell_2 \cap \ell_9 \\
P_{530} &= (0, 0, 1, 1) = \ell_3 \cap \ell_4 \\
P_{546} &= (0, 1, 1, 1) = \ell_3 \cap \ell_7
\end{aligned}$$

$$\begin{aligned}
P_{705} &= (0, 11, 1, 1) = \ell_3 \cap \ell_8 \\
P_{689} &= (0, 10, 1, 1) = \ell_3 \cap \ell_9 \\
P_{700} &= (11, 10, 1, 1) = \ell_5 \cap \ell_7 \\
P_{3004} &= (11, 10, 10, 1) = \ell_5 \cap \ell_8 \\
P_{715} &= (10, 11, 1, 1) = \ell_6 \cap \ell_7 \\
P_{3275} &= (10, 11, 11, 1) = \ell_6 \cap \ell_9 \\
P_{291} &= (1, 1, 0, 1) = \ell_8 \cap \ell_9
\end{aligned}$$

Single Points

The surface has 135 single points:

The single points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$ lies on line ℓ_0
 1 : $P_3 = (0, 0, 0, 1)$ lies on line ℓ_4
 2 : $P_6 = (2, 1, 0, 0)$ lies on line ℓ_0
 3 : $P_7 = (3, 1, 0, 0)$ lies on line ℓ_0
 4 : $P_8 = (4, 1, 0, 0)$ lies on line ℓ_0
 5 : $P_9 = (5, 1, 0, 0)$ lies on line ℓ_0
 6 : $P_{10} = (6, 1, 0, 0)$ lies on line ℓ_0
 7 : $P_{11} = (7, 1, 0, 0)$ lies on line ℓ_0
 8 : $P_{12} = (8, 1, 0, 0)$ lies on line ℓ_0
 9 : $P_{13} = (9, 1, 0, 0)$ lies on line ℓ_0
 10 : $P_{16} = (12, 1, 0, 0)$ lies on line ℓ_0
 11 : $P_{17} = (13, 1, 0, 0)$ lies on line ℓ_0
 12 : $P_{18} = (14, 1, 0, 0)$ lies on line ℓ_0
 13 : $P_{19} = (15, 1, 0, 0)$ lies on line ℓ_0
 14 : $P_{45} = (10, 1, 1, 0)$ lies on line ℓ_2
 15 : $P_{46} = (11, 1, 1, 0)$ lies on line ℓ_1
 16 : $P_{64} = (13, 2, 1, 0)$ lies on line ℓ_2
 17 : $P_{66} = (15, 2, 1, 0)$ lies on line ℓ_1
 18 : $P_{71} = (4, 3, 1, 0)$ lies on line ℓ_1
 19 : $P_{74} = (7, 3, 1, 0)$ lies on line ℓ_2
 20 : $P_{86} = (3, 4, 1, 0)$ lies on line ℓ_2
 21 : $P_{90} = (7, 4, 1, 0)$ lies on line ℓ_1
 22 : $P_{108} = (9, 5, 1, 0)$ lies on line ℓ_2
 23 : $P_{111} = (12, 5, 1, 0)$ lies on line ℓ_1
 24 : $P_{123} = (8, 6, 1, 0)$ lies on line ℓ_1
 25 : $P_{129} = (14, 6, 1, 0)$ lies on line ℓ_2
 26 : $P_{134} = (3, 7, 1, 0)$ lies on line ℓ_1
 27 : $P_{135} = (4, 7, 1, 0)$ lies on line ℓ_2
 28 : $P_{153} = (6, 8, 1, 0)$ lies on line ℓ_2
 29 : $P_{161} = (14, 8, 1, 0)$ lies on line ℓ_1
 30 : $P_{168} = (5, 9, 1, 0)$ lies on line ℓ_1
 31 : $P_{175} = (12, 9, 1, 0)$ lies on line ℓ_2
 32 : $P_{190} = (11, 10, 1, 0)$ lies on line ℓ_2
 33 : $P_{205} = (10, 11, 1, 0)$ lies on line ℓ_1
 34 : $P_{216} = (5, 12, 1, 0)$ lies on line ℓ_2
 35 : $P_{220} = (9, 12, 1, 0)$ lies on line ℓ_1
 36 : $P_{229} = (2, 13, 1, 0)$ lies on line ℓ_1
 37 : $P_{242} = (15, 13, 1, 0)$ lies on line ℓ_2
 38 : $P_{249} = (6, 14, 1, 0)$ lies on line ℓ_1
 39 : $P_{251} = (8, 14, 1, 0)$ lies on line ℓ_2
 40 : $P_{261} = (2, 15, 1, 0)$ lies on line ℓ_2
 41 : $P_{272} = (13, 15, 1, 0)$ lies on line ℓ_1
 42 : $P_{445} = (11, 10, 0, 1)$ lies on line ℓ_5
 43 : $P_{460} = (10, 11, 0, 1)$ lies on line ℓ_6
 44 : $P_{531} = (1, 0, 1, 1)$ lies on line ℓ_7
 45 : $P_{561} = (0, 2, 1, 1)$ lies on line ℓ_3
 46 : $P_{564} = (3, 2, 1, 1)$ lies on line ℓ_7
 47 : $P_{577} = (0, 3, 1, 1)$ lies on line ℓ_3
 48 : $P_{579} = (2, 3, 1, 1)$ lies on line ℓ_7
 49 : $P_{593} = (0, 4, 1, 1)$ lies on line ℓ_3
 50 : $P_{598} = (5, 4, 1, 1)$ lies on line ℓ_7
 51 : $P_{609} = (0, 5, 1, 1)$ lies on line ℓ_3
 52 : $P_{613} = (4, 5, 1, 1)$ lies on line ℓ_7
 53 : $P_{625} = (0, 6, 1, 1)$ lies on line ℓ_3

54 : $P_{632} = (7, 6, 1, 1)$ lies on line ℓ_7
 55 : $P_{641} = (0, 7, 1, 1)$ lies on line ℓ_3
 56 : $P_{647} = (6, 7, 1, 1)$ lies on line ℓ_7
 57 : $P_{657} = (0, 8, 1, 1)$ lies on line ℓ_3
 58 : $P_{666} = (9, 8, 1, 1)$ lies on line ℓ_7
 59 : $P_{673} = (0, 9, 1, 1)$ lies on line ℓ_3
 60 : $P_{681} = (8, 9, 1, 1)$ lies on line ℓ_7
 61 : $P_{721} = (0, 12, 1, 1)$ lies on line ℓ_3
 62 : $P_{734} = (13, 12, 1, 1)$ lies on line ℓ_7
 63 : $P_{737} = (0, 13, 1, 1)$ lies on line ℓ_3
 64 : $P_{749} = (12, 13, 1, 1)$ lies on line ℓ_7
 65 : $P_{753} = (0, 14, 1, 1)$ lies on line ℓ_3
 66 : $P_{768} = (15, 14, 1, 1)$ lies on line ℓ_7
 67 : $P_{769} = (0, 15, 1, 1)$ lies on line ℓ_3
 68 : $P_{783} = (14, 15, 1, 1)$ lies on line ℓ_7
 69 : $P_{785} = (0, 0, 2, 1)$ lies on line ℓ_4
 70 : $P_{956} = (11, 10, 2, 1)$ lies on line ℓ_5
 71 : $P_{971} = (10, 11, 2, 1)$ lies on line ℓ_6
 72 : $P_{980} = (3, 12, 2, 1)$ lies on line ℓ_8
 73 : $P_{1012} = (3, 14, 2, 1)$ lies on line ℓ_9
 74 : $P_{1041} = (0, 0, 3, 1)$ lies on line ℓ_4
 75 : $P_{1123} = (2, 5, 3, 1)$ lies on line ℓ_9
 76 : $P_{1139} = (2, 6, 3, 1)$ lies on line ℓ_8
 77 : $P_{1212} = (11, 10, 3, 1)$ lies on line ℓ_5
 78 : $P_{1227} = (10, 11, 3, 1)$ lies on line ℓ_6
 79 : $P_{1297} = (0, 0, 4, 1)$ lies on line ℓ_4
 80 : $P_{1334} = (5, 2, 4, 1)$ lies on line ℓ_8
 81 : $P_{1398} = (5, 6, 4, 1)$ lies on line ℓ_9
 82 : $P_{1468} = (11, 10, 4, 1)$ lies on line ℓ_5
 83 : $P_{1483} = (10, 11, 4, 1)$ lies on line ℓ_6
 84 : $P_{1553} = (0, 0, 5, 1)$ lies on line ℓ_4
 85 : $P_{1685} = (4, 8, 5, 1)$ lies on line ℓ_8
 86 : $P_{1724} = (11, 10, 5, 1)$ lies on line ℓ_5
 87 : $P_{1739} = (10, 11, 5, 1)$ lies on line ℓ_6
 88 : $P_{1765} = (4, 13, 5, 1)$ lies on line ℓ_9
 89 : $P_{1809} = (0, 0, 6, 1)$ lies on line ℓ_4
 90 : $P_{1960} = (7, 9, 6, 1)$ lies on line ℓ_9
 91 : $P_{1980} = (11, 10, 6, 1)$ lies on line ℓ_5
 92 : $P_{1995} = (10, 11, 6, 1)$ lies on line ℓ_6
 93 : $P_{2056} = (7, 15, 6, 1)$ lies on line ℓ_8
 94 : $P_{2065} = (0, 0, 7, 1)$ lies on line ℓ_4
 95 : $P_{2103} = (6, 2, 7, 1)$ lies on line ℓ_9
 96 : $P_{2151} = (6, 5, 7, 1)$ lies on line ℓ_8
 97 : $P_{2236} = (11, 10, 7, 1)$ lies on line ℓ_5
 98 : $P_{2251} = (10, 11, 7, 1)$ lies on line ℓ_6
 99 : $P_{2321} = (0, 0, 8, 1)$ lies on line ℓ_4
 100 : $P_{2442} = (9, 7, 8, 1)$ lies on line ℓ_8
 101 : $P_{2492} = (11, 10, 8, 1)$ lies on line ℓ_5
 102 : $P_{2507} = (10, 11, 8, 1)$ lies on line ℓ_6
 103 : $P_{2570} = (9, 15, 8, 1)$ lies on line ℓ_9
 104 : $P_{2577} = (0, 0, 9, 1)$ lies on line ℓ_4
 105 : $P_{2649} = (8, 4, 9, 1)$ lies on line ℓ_9
 106 : $P_{2748} = (11, 10, 9, 1)$ lies on line ℓ_5
 107 : $P_{2763} = (10, 11, 9, 1)$ lies on line ℓ_6

108 : $P_{2793} = (8, 13, 9, 1)$ lies on line ℓ_8
 109 : $P_{2833} = (0, 0, 10, 1)$ lies on line ℓ_4
 110 : $P_{2844} = (11, 0, 10, 1)$ lies on line ℓ_9
 111 : $P_{3019} = (10, 11, 10, 1)$ lies on line ℓ_6
 112 : $P_{3089} = (0, 0, 11, 1)$ lies on line ℓ_4
 113 : $P_{3099} = (10, 0, 11, 1)$ lies on line ℓ_8
 114 : $P_{3260} = (11, 10, 11, 1)$ lies on line ℓ_5
 115 : $P_{3345} = (0, 0, 12, 1)$ lies on line ℓ_4
 116 : $P_{3422} = (13, 4, 12, 1)$ lies on line ℓ_8
 117 : $P_{3486} = (13, 8, 12, 1)$ lies on line ℓ_9
 118 : $P_{3516} = (11, 10, 12, 1)$ lies on line ℓ_5
 119 : $P_{3531} = (10, 11, 12, 1)$ lies on line ℓ_6
 120 : $P_{3601} = (0, 0, 13, 1)$ lies on line ℓ_4
 121 : $P_{3661} = (12, 3, 13, 1)$ lies on line ℓ_9

122 : $P_{3772} = (11, 10, 13, 1)$ lies on line ℓ_5
 123 : $P_{3787} = (10, 11, 13, 1)$ lies on line ℓ_6
 124 : $P_{3837} = (12, 14, 13, 1)$ lies on line ℓ_8
 125 : $P_{3857} = (0, 0, 14, 1)$ lies on line ℓ_4
 126 : $P_{3984} = (15, 7, 14, 1)$ lies on line ℓ_9
 127 : $P_{4016} = (15, 9, 14, 1)$ lies on line ℓ_8
 128 : $P_{4028} = (11, 10, 14, 1)$ lies on line ℓ_5
 129 : $P_{4043} = (10, 11, 14, 1)$ lies on line ℓ_6
 130 : $P_{4113} = (0, 0, 15, 1)$ lies on line ℓ_4
 131 : $P_{4175} = (14, 3, 15, 1)$ lies on line ℓ_8
 132 : $P_{4284} = (11, 10, 15, 1)$ lies on line ℓ_5
 133 : $P_{4299} = (10, 11, 15, 1)$ lies on line ℓ_6
 134 : $P_{4319} = (14, 12, 15, 1)$ lies on line ℓ_9

The single points on the surface are:

Points on surface but on no line

The surface has 170 points not on any line:

The points on the surface but not on lines are:

0 : $P_{310} = (4, 2, 0, 1)$	30 : $P_{1210} = (9, 10, 3, 1)$
1 : $P_{327} = (5, 3, 0, 1)$	31 : $P_{1226} = (9, 11, 3, 1)$
2 : $P_{347} = (9, 4, 0, 1)$	32 : $P_{1241} = (8, 12, 3, 1)$
3 : $P_{362} = (8, 5, 0, 1)$	33 : $P_{1245} = (12, 12, 3, 1)$
4 : $P_{383} = (13, 6, 0, 1)$	34 : $P_{1303} = (6, 0, 4, 1)$
5 : $P_{398} = (12, 7, 0, 1)$	35 : $P_{1330} = (1, 2, 4, 1)$
6 : $P_{417} = (15, 8, 0, 1)$	36 : $P_{1355} = (10, 3, 4, 1)$
7 : $P_{432} = (14, 9, 0, 1)$	37 : $P_{1360} = (15, 3, 4, 1)$
8 : $P_{472} = (6, 12, 0, 1)$	38 : $P_{1464} = (7, 10, 4, 1)$
9 : $P_{489} = (7, 13, 0, 1)$	39 : $P_{1480} = (7, 11, 4, 1)$
10 : $P_{500} = (2, 14, 0, 1)$	40 : $P_{1490} = (1, 12, 4, 1)$
11 : $P_{517} = (3, 15, 0, 1)$	41 : $P_{1500} = (11, 12, 4, 1)$
12 : $P_{797} = (12, 0, 2, 1)$	42 : $P_{1543} = (6, 15, 4, 1)$
13 : $P_{898} = (1, 7, 2, 1)$	43 : $P_{1552} = (15, 15, 4, 1)$
14 : $P_{907} = (10, 7, 2, 1)$	44 : $P_{1568} = (15, 0, 5, 1)$
15 : $P_{921} = (8, 8, 2, 1)$	45 : $P_{1572} = (3, 1, 5, 1)$
16 : $P_{925} = (12, 8, 2, 1)$	46 : $P_{1582} = (13, 1, 5, 1)$
17 : $P_{958} = (13, 10, 2, 1)$	47 : $P_{1655} = (6, 6, 5, 1)$
18 : $P_{974} = (13, 11, 2, 1)$	48 : $P_{1664} = (15, 6, 5, 1)$
19 : $P_{1010} = (1, 14, 2, 1)$	49 : $P_{1684} = (3, 8, 5, 1)$
20 : $P_{1033} = (8, 15, 2, 1)$	50 : $P_{1708} = (11, 9, 5, 1)$
21 : $P_{1036} = (11, 15, 2, 1)$	51 : $P_{1710} = (13, 9, 5, 1)$
22 : $P_{1049} = (8, 0, 3, 1)$	52 : $P_{1727} = (14, 10, 5, 1)$
23 : $P_{1063} = (6, 1, 3, 1)$	53 : $P_{1743} = (14, 11, 5, 1)$
24 : $P_{1072} = (15, 1, 3, 1)$	54 : $P_{1767} = (6, 13, 5, 1)$
25 : $P_{1111} = (6, 4, 3, 1)$	55 : $P_{1803} = (10, 15, 5, 1)$
26 : $P_{1115} = (10, 4, 3, 1)$	56 : $P_{1813} = (4, 0, 6, 1)$
27 : $P_{1136} = (15, 5, 3, 1)$	57 : $P_{1849} = (8, 2, 6, 1)$
28 : $P_{1149} = (12, 6, 3, 1)$	58 : $P_{1855} = (14, 2, 6, 1)$
29 : $P_{1180} = (11, 8, 3, 1)$	59 : $P_{1885} = (12, 4, 6, 1)$

60 : $P_{1929} = (8, 7, 6, 1)$	114 : $P_{3114} = (9, 1, 11, 1)$
61 : $P_{1932} = (11, 7, 6, 1)$	115 : $P_{3170} = (1, 5, 11, 1)$
62 : $P_{1963} = (10, 9, 6, 1)$	116 : $P_{3183} = (14, 5, 11, 1)$
63 : $P_{1974} = (5, 10, 6, 1)$	117 : $P_{3276} = (11, 11, 11, 1)$
64 : $P_{1990} = (5, 11, 6, 1)$	118 : $P_{3283} = (2, 12, 11, 1)$
65 : $P_{2037} = (4, 14, 6, 1)$	119 : $P_{3285} = (4, 12, 11, 1)$
66 : $P_{2047} = (14, 14, 6, 1)$	120 : $P_{3306} = (9, 13, 11, 1)$
67 : $P_{2061} = (12, 15, 6, 1)$	121 : $P_{3311} = (14, 13, 11, 1)$
68 : $P_{2079} = (14, 0, 7, 1)$	122 : $P_{3330} = (1, 15, 11, 1)$
69 : $P_{2107} = (10, 2, 7, 1)$	123 : $P_{3333} = (4, 15, 11, 1)$
70 : $P_{2133} = (4, 4, 7, 1)$	124 : $P_{3347} = (2, 0, 12, 1)$
71 : $P_{2143} = (14, 4, 7, 1)$	125 : $P_{3384} = (7, 2, 12, 1)$
72 : $P_{2158} = (13, 5, 7, 1)$	126 : $P_{3420} = (11, 4, 12, 1)$
73 : $P_{2164} = (3, 6, 7, 1)$	127 : $P_{3480} = (7, 8, 12, 1)$
74 : $P_{2172} = (11, 6, 7, 1)$	128 : $P_{3491} = (2, 9, 12, 1)$
75 : $P_{2212} = (3, 9, 7, 1)$	129 : $P_{3498} = (9, 9, 12, 1)$
76 : $P_{2213} = (4, 9, 7, 1)$	130 : $P_{3508} = (3, 10, 12, 1)$
77 : $P_{2240} = (15, 10, 7, 1)$	131 : $P_{3524} = (3, 11, 12, 1)$
78 : $P_{2256} = (15, 11, 7, 1)$	132 : $P_{3558} = (5, 13, 12, 1)$
79 : $P_{2302} = (13, 14, 7, 1)$	133 : $P_{3563} = (10, 13, 12, 1)$
80 : $P_{2324} = (3, 0, 8, 1)$	134 : $P_{3574} = (5, 14, 12, 1)$
81 : $P_{2342} = (5, 1, 8, 1)$	135 : $P_{3578} = (9, 14, 12, 1)$
82 : $P_{2344} = (7, 1, 8, 1)$	136 : $P_{3610} = (9, 0, 13, 1)$
83 : $P_{2380} = (11, 3, 8, 1)$	137 : $P_{3635} = (2, 2, 13, 1)$
84 : $P_{2446} = (13, 7, 8, 1)$	138 : $P_{3642} = (9, 2, 13, 1)$
85 : $P_{2483} = (2, 10, 8, 1)$	139 : $P_{3655} = (6, 3, 13, 1)$
86 : $P_{2499} = (2, 11, 8, 1)$	140 : $P_{3667} = (2, 4, 13, 1)$
87 : $P_{2532} = (3, 13, 8, 1)$	141 : $P_{3680} = (15, 4, 13, 1)$
88 : $P_{2542} = (13, 13, 8, 1)$	142 : $P_{3751} = (6, 9, 13, 1)$
89 : $P_{2552} = (7, 14, 8, 1)$	143 : $P_{3769} = (8, 10, 13, 1)$
90 : $P_{2555} = (10, 14, 8, 1)$	144 : $P_{3785} = (8, 11, 13, 1)$
91 : $P_{2566} = (5, 15, 8, 1)$	145 : $P_{3803} = (10, 12, 13, 1)$
92 : $P_{2590} = (13, 0, 9, 1)$	146 : $P_{3808} = (15, 12, 13, 1)$
93 : $P_{2628} = (3, 3, 9, 1)$	147 : $P_{3836} = (11, 14, 13, 1)$
94 : $P_{2638} = (13, 3, 9, 1)$	148 : $P_{3864} = (7, 0, 14, 1)$
95 : $P_{2642} = (1, 4, 9, 1)$	149 : $P_{3942} = (5, 5, 14, 1)$
96 : $P_{2660} = (3, 5, 9, 1)$	150 : $P_{3944} = (7, 5, 14, 1)$
97 : $P_{2668} = (11, 5, 9, 1)$	151 : $P_{3990} = (5, 8, 14, 1)$
98 : $P_{2674} = (1, 6, 9, 1)$	152 : $P_{3995} = (10, 8, 14, 1)$
99 : $P_{2683} = (10, 6, 9, 1)$	153 : $P_{4002} = (1, 9, 14, 1)$
100 : $P_{2749} = (12, 10, 9, 1)$	154 : $P_{4023} = (6, 10, 14, 1)$
101 : $P_{2765} = (12, 11, 9, 1)$	155 : $P_{4039} = (6, 11, 14, 1)$
102 : $P_{2853} = (4, 1, 10, 1)$	156 : $P_{4066} = (1, 13, 14, 1)$
103 : $P_{2863} = (14, 1, 10, 1)$	157 : $P_{4076} = (11, 13, 14, 1)$
104 : $P_{2882} = (1, 3, 10, 1)$	158 : $P_{4118} = (5, 0, 15, 1)$
105 : $P_{2890} = (9, 3, 10, 1)$	159 : $P_{4137} = (8, 1, 15, 1)$
106 : $P_{2933} = (4, 6, 10, 1)$	160 : $P_{4141} = (12, 1, 15, 1)$
107 : $P_{2938} = (9, 6, 10, 1)$	161 : $P_{4156} = (11, 2, 15, 1)$
108 : $P_{2947} = (2, 7, 10, 1)$	162 : $P_{4157} = (12, 2, 15, 1)$
109 : $P_{2959} = (14, 7, 10, 1)$	163 : $P_{4169} = (8, 3, 15, 1)$
110 : $P_{2962} = (1, 8, 10, 1)$	164 : $P_{4203} = (10, 5, 15, 1)$
111 : $P_{2963} = (2, 8, 10, 1)$	165 : $P_{4230} = (5, 7, 15, 1)$
112 : $P_{3003} = (10, 10, 10, 1)$	166 : $P_{4232} = (7, 7, 15, 1)$
113 : $P_{3107} = (2, 1, 11, 1)$	167 : $P_{4277} = (4, 10, 15, 1)$

168 : $P_{4293} = (4, 11, 15, 1)$

169 : $P_{4312} = (7, 12, 15, 1)$

Line Intersection Graph

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

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_7
in point	P_{15}	P_{14}	P_1	P_5

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_4	ℓ_5	ℓ_6	ℓ_8
in point	P_{15}	P_2	P_2	P_2	P_2	P_{180}

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_4	ℓ_5	ℓ_6	ℓ_9
in point	P_{14}	P_2	P_2	P_2	P_2	P_{196}

Line 3 intersects

Line	ℓ_0	ℓ_4	ℓ_7	ℓ_8	ℓ_9
in point	P_1	P_{530}	P_{546}	P_{705}	P_{689}

Line 4 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_6
in point	P_2	P_2	P_{530}	P_2	P_2

Line 5 intersects

Line	ℓ_1	ℓ_2	ℓ_4	ℓ_6	ℓ_7	ℓ_8
in point	P_2	P_2	P_2	P_2	P_{700}	P_{3004}

Line 6 intersects

Line	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_7	ℓ_9
in point	P_2	P_2	P_2	P_2	P_{715}	P_{3275}

Line 7 intersects

Line	ℓ_0	ℓ_3	ℓ_5	ℓ_6
in point	P_5	P_{546}	P_{700}	P_{715}

Line 8 intersects

Line	ℓ_1	ℓ_3	ℓ_5	ℓ_9
in point	P_{180}	P_{705}	P_{3004}	P_{291}

Line 9 intersects

Line	ℓ_2	ℓ_3	ℓ_6	ℓ_8
in point	P_{196}	P_{689}	P_{3275}	P_{291}

The surface has 321 points:

The points on the surface are:

0 : $P_0 = (1, 0, 0, 0)$	54 : $P_{383} = (13, 6, 0, 1)$	108 : $P_{1033} = (8, 15, 2, 1)$
1 : $P_1 = (0, 1, 0, 0)$	55 : $P_{398} = (12, 7, 0, 1)$	109 : $P_{1036} = (11, 15, 2, 1)$
2 : $P_2 = (0, 0, 1, 0)$	56 : $P_{417} = (15, 8, 0, 1)$	110 : $P_{1041} = (0, 0, 3, 1)$
3 : $P_3 = (0, 0, 0, 1)$	57 : $P_{432} = (14, 9, 0, 1)$	111 : $P_{1049} = (8, 0, 3, 1)$
4 : $P_5 = (1, 1, 0, 0)$	58 : $P_{445} = (11, 10, 0, 1)$	112 : $P_{1063} = (6, 1, 3, 1)$
5 : $P_6 = (2, 1, 0, 0)$	59 : $P_{460} = (10, 11, 0, 1)$	113 : $P_{1072} = (15, 1, 3, 1)$
6 : $P_7 = (3, 1, 0, 0)$	60 : $P_{472} = (6, 12, 0, 1)$	114 : $P_{1111} = (6, 4, 3, 1)$
7 : $P_8 = (4, 1, 0, 0)$	61 : $P_{489} = (7, 13, 0, 1)$	115 : $P_{1115} = (10, 4, 3, 1)$
8 : $P_9 = (5, 1, 0, 0)$	62 : $P_{500} = (2, 14, 0, 1)$	116 : $P_{1123} = (2, 5, 3, 1)$
9 : $P_{10} = (6, 1, 0, 0)$	63 : $P_{517} = (3, 15, 0, 1)$	117 : $P_{1136} = (15, 5, 3, 1)$
10 : $P_{11} = (7, 1, 0, 0)$	64 : $P_{530} = (0, 0, 1, 1)$	118 : $P_{1139} = (2, 6, 3, 1)$
11 : $P_{12} = (8, 1, 0, 0)$	65 : $P_{531} = (1, 0, 1, 1)$	119 : $P_{1149} = (12, 6, 3, 1)$
12 : $P_{13} = (9, 1, 0, 0)$	66 : $P_{546} = (0, 1, 1, 1)$	120 : $P_{1180} = (11, 8, 3, 1)$
13 : $P_{14} = (10, 1, 0, 0)$	67 : $P_{561} = (0, 2, 1, 1)$	121 : $P_{1210} = (9, 10, 3, 1)$
14 : $P_{15} = (11, 1, 0, 0)$	68 : $P_{564} = (3, 2, 1, 1)$	122 : $P_{1212} = (11, 10, 3, 1)$
15 : $P_{16} = (12, 1, 0, 0)$	69 : $P_{577} = (0, 3, 1, 1)$	123 : $P_{1226} = (9, 11, 3, 1)$
16 : $P_{17} = (13, 1, 0, 0)$	70 : $P_{579} = (2, 3, 1, 1)$	124 : $P_{1227} = (10, 11, 3, 1)$
17 : $P_{18} = (14, 1, 0, 0)$	71 : $P_{593} = (0, 4, 1, 1)$	125 : $P_{1241} = (8, 12, 3, 1)$
18 : $P_{19} = (15, 1, 0, 0)$	72 : $P_{598} = (5, 4, 1, 1)$	126 : $P_{1245} = (12, 12, 3, 1)$
19 : $P_{45} = (10, 1, 1, 0)$	73 : $P_{609} = (0, 5, 1, 1)$	127 : $P_{1297} = (0, 0, 4, 1)$
20 : $P_{46} = (11, 1, 1, 0)$	74 : $P_{613} = (4, 5, 1, 1)$	128 : $P_{1303} = (6, 0, 4, 1)$
21 : $P_{64} = (13, 2, 1, 0)$	75 : $P_{625} = (0, 6, 1, 1)$	129 : $P_{1330} = (1, 2, 4, 1)$
22 : $P_{66} = (15, 2, 1, 0)$	76 : $P_{632} = (7, 6, 1, 1)$	130 : $P_{1334} = (5, 2, 4, 1)$
23 : $P_{71} = (4, 3, 1, 0)$	77 : $P_{641} = (0, 7, 1, 1)$	131 : $P_{1355} = (10, 3, 4, 1)$
24 : $P_{74} = (7, 3, 1, 0)$	78 : $P_{647} = (6, 7, 1, 1)$	132 : $P_{1360} = (15, 3, 4, 1)$
25 : $P_{86} = (3, 4, 1, 0)$	79 : $P_{657} = (0, 8, 1, 1)$	133 : $P_{1398} = (5, 6, 4, 1)$
26 : $P_{90} = (7, 4, 1, 0)$	80 : $P_{666} = (9, 8, 1, 1)$	134 : $P_{1464} = (7, 10, 4, 1)$
27 : $P_{108} = (9, 5, 1, 0)$	81 : $P_{673} = (0, 9, 1, 1)$	135 : $P_{1468} = (11, 10, 4, 1)$
28 : $P_{111} = (12, 5, 1, 0)$	82 : $P_{681} = (8, 9, 1, 1)$	136 : $P_{1480} = (7, 11, 4, 1)$
29 : $P_{123} = (8, 6, 1, 0)$	83 : $P_{689} = (0, 10, 1, 1)$	137 : $P_{1483} = (10, 11, 4, 1)$
30 : $P_{129} = (14, 6, 1, 0)$	84 : $P_{700} = (11, 10, 1, 1)$	138 : $P_{1490} = (1, 12, 4, 1)$
31 : $P_{134} = (3, 7, 1, 0)$	85 : $P_{705} = (0, 11, 1, 1)$	139 : $P_{1500} = (11, 12, 4, 1)$
32 : $P_{135} = (4, 7, 1, 0)$	86 : $P_{715} = (10, 11, 1, 1)$	140 : $P_{1543} = (6, 15, 4, 1)$
33 : $P_{153} = (6, 8, 1, 0)$	87 : $P_{721} = (0, 12, 1, 1)$	141 : $P_{1552} = (15, 15, 4, 1)$
34 : $P_{161} = (14, 8, 1, 0)$	88 : $P_{734} = (13, 12, 1, 1)$	142 : $P_{1553} = (0, 0, 5, 1)$
35 : $P_{168} = (5, 9, 1, 0)$	89 : $P_{737} = (0, 13, 1, 1)$	143 : $P_{1568} = (15, 0, 5, 1)$
36 : $P_{175} = (12, 9, 1, 0)$	90 : $P_{749} = (12, 13, 1, 1)$	144 : $P_{1572} = (3, 1, 5, 1)$
37 : $P_{180} = (1, 10, 1, 0)$	91 : $P_{753} = (0, 14, 1, 1)$	145 : $P_{1582} = (13, 1, 5, 1)$
38 : $P_{190} = (11, 10, 1, 0)$	92 : $P_{768} = (15, 14, 1, 1)$	146 : $P_{1655} = (6, 6, 5, 1)$
39 : $P_{196} = (1, 11, 1, 0)$	93 : $P_{769} = (0, 15, 1, 1)$	147 : $P_{1664} = (15, 6, 5, 1)$
40 : $P_{205} = (10, 11, 1, 0)$	94 : $P_{783} = (14, 15, 1, 1)$	148 : $P_{1684} = (3, 8, 5, 1)$
41 : $P_{216} = (5, 12, 1, 0)$	95 : $P_{785} = (0, 0, 2, 1)$	149 : $P_{1685} = (4, 8, 5, 1)$
42 : $P_{220} = (9, 12, 1, 0)$	96 : $P_{797} = (12, 0, 2, 1)$	150 : $P_{1708} = (11, 9, 5, 1)$
43 : $P_{229} = (2, 13, 1, 0)$	97 : $P_{898} = (1, 7, 2, 1)$	151 : $P_{1710} = (13, 9, 5, 1)$
44 : $P_{242} = (15, 13, 1, 0)$	98 : $P_{907} = (10, 7, 2, 1)$	152 : $P_{1724} = (11, 10, 5, 1)$
45 : $P_{249} = (6, 14, 1, 0)$	99 : $P_{921} = (8, 8, 2, 1)$	153 : $P_{1727} = (14, 10, 5, 1)$
46 : $P_{251} = (8, 14, 1, 0)$	100 : $P_{925} = (12, 8, 2, 1)$	154 : $P_{1739} = (10, 11, 5, 1)$
47 : $P_{261} = (2, 15, 1, 0)$	101 : $P_{956} = (11, 10, 2, 1)$	155 : $P_{1743} = (14, 11, 5, 1)$
48 : $P_{272} = (13, 15, 1, 0)$	102 : $P_{958} = (13, 10, 2, 1)$	156 : $P_{1765} = (4, 13, 5, 1)$
49 : $P_{291} = (1, 1, 0, 1)$	103 : $P_{971} = (10, 11, 2, 1)$	157 : $P_{1767} = (6, 13, 5, 1)$
50 : $P_{310} = (4, 2, 0, 1)$	104 : $P_{974} = (13, 11, 2, 1)$	158 : $P_{1803} = (10, 15, 5, 1)$
51 : $P_{327} = (5, 3, 0, 1)$	105 : $P_{980} = (3, 12, 2, 1)$	159 : $P_{1809} = (0, 0, 6, 1)$
52 : $P_{347} = (9, 4, 0, 1)$	106 : $P_{1010} = (1, 14, 2, 1)$	160 : $P_{1813} = (4, 0, 6, 1)$
53 : $P_{362} = (8, 5, 0, 1)$	107 : $P_{1012} = (3, 14, 2, 1)$	161 : $P_{1849} = (8, 2, 6, 1)$

162 : $P_{1855} = (14, 2, 6, 1)$	216 : $P_{2660} = (3, 5, 9, 1)$	270 : $P_{3574} = (5, 14, 12, 1)$
163 : $P_{1885} = (12, 4, 6, 1)$	217 : $P_{2668} = (11, 5, 9, 1)$	271 : $P_{3578} = (9, 14, 12, 1)$
164 : $P_{1929} = (8, 7, 6, 1)$	218 : $P_{2674} = (1, 6, 9, 1)$	272 : $P_{3601} = (0, 0, 13, 1)$
165 : $P_{1932} = (11, 7, 6, 1)$	219 : $P_{2683} = (10, 6, 9, 1)$	273 : $P_{3610} = (9, 0, 13, 1)$
166 : $P_{1960} = (7, 9, 6, 1)$	220 : $P_{2748} = (11, 10, 9, 1)$	274 : $P_{3635} = (2, 2, 13, 1)$
167 : $P_{1963} = (10, 9, 6, 1)$	221 : $P_{2749} = (12, 10, 9, 1)$	275 : $P_{3642} = (9, 2, 13, 1)$
168 : $P_{1974} = (5, 10, 6, 1)$	222 : $P_{2763} = (10, 11, 9, 1)$	276 : $P_{3655} = (6, 3, 13, 1)$
169 : $P_{1980} = (11, 10, 6, 1)$	223 : $P_{2765} = (12, 11, 9, 1)$	277 : $P_{3661} = (12, 3, 13, 1)$
170 : $P_{1990} = (5, 11, 6, 1)$	224 : $P_{2793} = (8, 13, 9, 1)$	278 : $P_{3667} = (2, 4, 13, 1)$
171 : $P_{1995} = (10, 11, 6, 1)$	225 : $P_{2833} = (0, 0, 10, 1)$	279 : $P_{3680} = (15, 4, 13, 1)$
172 : $P_{2037} = (4, 14, 6, 1)$	226 : $P_{2844} = (11, 0, 10, 1)$	280 : $P_{3751} = (6, 9, 13, 1)$
173 : $P_{2047} = (14, 14, 6, 1)$	227 : $P_{2853} = (4, 1, 10, 1)$	281 : $P_{3769} = (8, 10, 13, 1)$
174 : $P_{2056} = (7, 15, 6, 1)$	228 : $P_{2863} = (14, 1, 10, 1)$	282 : $P_{3772} = (11, 10, 13, 1)$
175 : $P_{2061} = (12, 15, 6, 1)$	229 : $P_{2882} = (1, 3, 10, 1)$	283 : $P_{3785} = (8, 11, 13, 1)$
176 : $P_{2065} = (0, 0, 7, 1)$	230 : $P_{2890} = (9, 3, 10, 1)$	284 : $P_{3787} = (10, 11, 13, 1)$
177 : $P_{2079} = (14, 0, 7, 1)$	231 : $P_{2933} = (4, 6, 10, 1)$	285 : $P_{3803} = (10, 12, 13, 1)$
178 : $P_{2103} = (6, 2, 7, 1)$	232 : $P_{2938} = (9, 6, 10, 1)$	286 : $P_{3808} = (15, 12, 13, 1)$
179 : $P_{2107} = (10, 2, 7, 1)$	233 : $P_{2947} = (2, 7, 10, 1)$	287 : $P_{3836} = (11, 14, 13, 1)$
180 : $P_{2133} = (4, 4, 7, 1)$	234 : $P_{2959} = (14, 7, 10, 1)$	288 : $P_{3837} = (12, 14, 13, 1)$
181 : $P_{2143} = (14, 4, 7, 1)$	235 : $P_{2962} = (1, 8, 10, 1)$	289 : $P_{3857} = (0, 0, 14, 1)$
182 : $P_{2151} = (6, 5, 7, 1)$	236 : $P_{2963} = (2, 8, 10, 1)$	290 : $P_{3864} = (7, 0, 14, 1)$
183 : $P_{2158} = (13, 5, 7, 1)$	237 : $P_{3003} = (10, 10, 10, 1)$	291 : $P_{3942} = (5, 5, 14, 1)$
184 : $P_{2164} = (3, 6, 7, 1)$	238 : $P_{3004} = (11, 10, 10, 1)$	292 : $P_{3944} = (7, 5, 14, 1)$
185 : $P_{2172} = (11, 6, 7, 1)$	239 : $P_{3019} = (10, 11, 10, 1)$	293 : $P_{3984} = (15, 7, 14, 1)$
186 : $P_{2212} = (3, 9, 7, 1)$	240 : $P_{3089} = (0, 0, 11, 1)$	294 : $P_{3990} = (5, 8, 14, 1)$
187 : $P_{2213} = (4, 9, 7, 1)$	241 : $P_{3099} = (10, 0, 11, 1)$	295 : $P_{3995} = (10, 8, 14, 1)$
188 : $P_{2236} = (11, 10, 7, 1)$	242 : $P_{3107} = (2, 1, 11, 1)$	296 : $P_{4002} = (1, 9, 14, 1)$
189 : $P_{2240} = (15, 10, 7, 1)$	243 : $P_{3114} = (9, 1, 11, 1)$	297 : $P_{4016} = (15, 9, 14, 1)$
190 : $P_{2251} = (10, 11, 7, 1)$	244 : $P_{3170} = (1, 5, 11, 1)$	298 : $P_{4023} = (6, 10, 14, 1)$
191 : $P_{2256} = (15, 11, 7, 1)$	245 : $P_{3183} = (14, 5, 11, 1)$	299 : $P_{4028} = (11, 10, 14, 1)$
192 : $P_{2302} = (13, 14, 7, 1)$	246 : $P_{3260} = (11, 10, 11, 1)$	300 : $P_{4039} = (6, 11, 14, 1)$
193 : $P_{2321} = (0, 0, 8, 1)$	247 : $P_{3275} = (10, 11, 11, 1)$	301 : $P_{4043} = (10, 11, 14, 1)$
194 : $P_{2324} = (3, 0, 8, 1)$	248 : $P_{3276} = (11, 11, 11, 1)$	302 : $P_{4066} = (1, 13, 14, 1)$
195 : $P_{2342} = (5, 1, 8, 1)$	249 : $P_{3283} = (2, 12, 11, 1)$	303 : $P_{4076} = (11, 13, 14, 1)$
196 : $P_{2344} = (7, 1, 8, 1)$	250 : $P_{3285} = (4, 12, 11, 1)$	304 : $P_{4113} = (0, 0, 15, 1)$
197 : $P_{2380} = (11, 3, 8, 1)$	251 : $P_{3306} = (9, 13, 11, 1)$	305 : $P_{4118} = (5, 0, 15, 1)$
198 : $P_{2442} = (9, 7, 8, 1)$	252 : $P_{3311} = (14, 13, 11, 1)$	306 : $P_{4137} = (8, 1, 15, 1)$
199 : $P_{2446} = (13, 7, 8, 1)$	253 : $P_{3330} = (1, 15, 11, 1)$	307 : $P_{4141} = (12, 1, 15, 1)$
200 : $P_{2483} = (2, 10, 8, 1)$	254 : $P_{3333} = (4, 15, 11, 1)$	308 : $P_{4156} = (11, 2, 15, 1)$
201 : $P_{2492} = (11, 10, 8, 1)$	255 : $P_{3345} = (0, 0, 12, 1)$	309 : $P_{4157} = (12, 2, 15, 1)$
202 : $P_{2499} = (2, 11, 8, 1)$	256 : $P_{3347} = (2, 0, 12, 1)$	310 : $P_{4169} = (8, 3, 15, 1)$
203 : $P_{2507} = (10, 11, 8, 1)$	257 : $P_{3384} = (7, 2, 12, 1)$	311 : $P_{4175} = (14, 3, 15, 1)$
204 : $P_{2532} = (3, 13, 8, 1)$	258 : $P_{3420} = (11, 4, 12, 1)$	312 : $P_{4203} = (10, 5, 15, 1)$
205 : $P_{2542} = (13, 13, 8, 1)$	259 : $P_{3422} = (13, 4, 12, 1)$	313 : $P_{4230} = (5, 7, 15, 1)$
206 : $P_{2552} = (7, 14, 8, 1)$	260 : $P_{3480} = (7, 8, 12, 1)$	314 : $P_{4232} = (7, 7, 15, 1)$
207 : $P_{2555} = (10, 14, 8, 1)$	261 : $P_{3486} = (13, 8, 12, 1)$	315 : $P_{4277} = (4, 10, 15, 1)$
208 : $P_{2566} = (5, 15, 8, 1)$	262 : $P_{3491} = (2, 9, 12, 1)$	316 : $P_{4284} = (11, 10, 15, 1)$
209 : $P_{2570} = (9, 15, 8, 1)$	263 : $P_{3498} = (9, 9, 12, 1)$	317 : $P_{4293} = (4, 11, 15, 1)$
210 : $P_{2577} = (0, 0, 9, 1)$	264 : $P_{3508} = (3, 10, 12, 1)$	318 : $P_{4299} = (10, 11, 15, 1)$
211 : $P_{2590} = (13, 0, 9, 1)$	265 : $P_{3516} = (11, 10, 12, 1)$	319 : $P_{4312} = (7, 12, 15, 1)$
212 : $P_{2628} = (3, 3, 9, 1)$	266 : $P_{3524} = (3, 11, 12, 1)$	320 : $P_{4319} = (14, 12, 15, 1)$
213 : $P_{2638} = (13, 3, 9, 1)$	267 : $P_{3531} = (10, 11, 12, 1)$	
214 : $P_{2642} = (1, 4, 9, 1)$	268 : $P_{3558} = (5, 13, 12, 1)$	
215 : $P_{2649} = (8, 4, 9, 1)$	269 : $P_{3563} = (10, 13, 12, 1)$	