

Rank-74499 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

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

The point rank of the equation over GF(32) is 1108378661

General information

Number of lines	7
Number of points	1121
Number of singular points	2
Number of Eckardt points	1
Number of double points	5
Number of single points	214
Number of points off lines	900
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^7
Type of lines on points	$4, 3, 2^5, 1^{214}, 0^{900}$

Singular Points

The surface has 2 singular points:

$$0 : P_0 = \mathbf{P}(1, 0, 0, 0) = \mathbf{P}(1, 0, 0, 0)$$

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

The 7 Lines

The lines and their Pluecker coordinates are:

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

$$\begin{aligned}
\ell_1 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \mathbf{Pl}(0, 0, 1, 0, 0, 0)_2 \\
\ell_2 &= \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2081} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2081} = \mathbf{Pl}(0, 0, 1, 0, 0, 1)_{34912} \\
\ell_3 &= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33} = \mathbf{Pl}(1, 0, 1, 0, 1, 0)_{1153} \\
\ell_4 &= \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \mathbf{Pl}(0, 0, 0, 1, 0, 1)_{36865} \\
\ell_5 &= \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \mathbf{Pl}(0, 1, 0, 0, 0, 0)_1 \\
\ell_6 &= \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{35905} = \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{35905} = \mathbf{Pl}(0, 1, 1, 0, 0, 1)_{34944}
\end{aligned}$$

Rank of lines: (0, 1024, 2081, 33, 1082369, 1083424, 35905)

Rank of points on Klein quadric: (0, 2, 34912, 1153, 36865, 1, 34944)

Eckardt Points

The surface has 1 Eckardt points:

$$0 : P_0 = \mathbf{P}(1, 0, 0, 0) = \mathbf{P}(1, 0, 0, 0).$$

Double Points

The surface has 5 Double points:

The double points on the surface are:

$$P_5 = (1, 1, 0, 0) = \ell_0 \cap \ell_2$$

$$P_1 = (0, 1, 0, 0) = \ell_0 \cap \ell_4$$

$$P_{2114} = (0, 1, 1, 1) = \ell_3 \cap \ell_4$$

$$P_4 = (1, 1, 1, 1) = \ell_3 \cap \ell_6$$

$$P_{2082} = (0, 0, 1, 1) = \ell_4 \cap \ell_5$$

Single Points

The surface has 214 single points:

The single points on the surface are:

$$0 : P_3 = (0, 0, 0, 1) \text{ lies on line } \ell_5$$

$$1 : P_6 = (2, 1, 0, 0) \text{ lies on line } \ell_0$$

$$2 : P_7 = (3, 1, 0, 0) \text{ lies on line } \ell_0$$

$$3 : P_8 = (4, 1, 0, 0) \text{ lies on line } \ell_0$$

$$4 : P_9 = (5, 1, 0, 0) \text{ lies on line } \ell_0$$

$$5 : P_{10} = (6, 1, 0, 0) \text{ lies on line } \ell_0$$

$$6 : P_{11} = (7, 1, 0, 0) \text{ lies on line } \ell_0$$

$$7 : P_{12} = (8, 1, 0, 0) \text{ lies on line } \ell_0$$

$$8 : P_{13} = (9, 1, 0, 0) \text{ lies on line } \ell_0$$

$$9 : P_{14} = (10, 1, 0, 0) \text{ lies on line } \ell_0$$

$$10 : P_{15} = (11, 1, 0, 0) \text{ lies on line } \ell_0$$

$$11 : P_{16} = (12, 1, 0, 0) \text{ lies on line } \ell_0$$

$$12 : P_{17} = (13, 1, 0, 0) \text{ lies on line } \ell_0$$

$$13 : P_{18} = (14, 1, 0, 0) \text{ lies on line } \ell_0$$

$$14 : P_{19} = (15, 1, 0, 0) \text{ lies on line } \ell_0$$

$$15 : P_{20} = (16, 1, 0, 0) \text{ lies on line } \ell_0$$

$$16 : P_{21} = (17, 1, 0, 0) \text{ lies on line } \ell_0$$

$$17 : P_{22} = (18, 1, 0, 0) \text{ lies on line } \ell_0$$

$$18 : P_{23} = (19, 1, 0, 0) \text{ lies on line } \ell_0$$

$$19 : P_{24} = (20, 1, 0, 0) \text{ lies on line } \ell_0$$

$$20 : P_{25} = (21, 1, 0, 0) \text{ lies on line } \ell_0$$

$$21 : P_{26} = (22, 1, 0, 0) \text{ lies on line } \ell_0$$

$$22 : P_{27} = (23, 1, 0, 0) \text{ lies on line } \ell_0$$

$$23 : P_{28} = (24, 1, 0, 0) \text{ lies on line } \ell_0$$

$$24 : P_{29} = (25, 1, 0, 0) \text{ lies on line } \ell_0$$

$$25 : P_{30} = (26, 1, 0, 0) \text{ lies on line } \ell_0$$

26 : $P_{31} = (27, 1, 0, 0)$ lies on line ℓ_0
 27 : $P_{32} = (28, 1, 0, 0)$ lies on line ℓ_0
 28 : $P_{33} = (29, 1, 0, 0)$ lies on line ℓ_0
 29 : $P_{34} = (30, 1, 0, 0)$ lies on line ℓ_0
 30 : $P_{35} = (31, 1, 0, 0)$ lies on line ℓ_0
 31 : $P_{36} = (1, 0, 1, 0)$ lies on line ℓ_1
 32 : $P_{37} = (2, 0, 1, 0)$ lies on line ℓ_1
 33 : $P_{38} = (3, 0, 1, 0)$ lies on line ℓ_1
 34 : $P_{39} = (4, 0, 1, 0)$ lies on line ℓ_1
 35 : $P_{40} = (5, 0, 1, 0)$ lies on line ℓ_1
 36 : $P_{41} = (6, 0, 1, 0)$ lies on line ℓ_1
 37 : $P_{42} = (7, 0, 1, 0)$ lies on line ℓ_1
 38 : $P_{43} = (8, 0, 1, 0)$ lies on line ℓ_1
 39 : $P_{44} = (9, 0, 1, 0)$ lies on line ℓ_1
 40 : $P_{45} = (10, 0, 1, 0)$ lies on line ℓ_1
 41 : $P_{46} = (11, 0, 1, 0)$ lies on line ℓ_1
 42 : $P_{47} = (12, 0, 1, 0)$ lies on line ℓ_1
 43 : $P_{48} = (13, 0, 1, 0)$ lies on line ℓ_1
 44 : $P_{49} = (14, 0, 1, 0)$ lies on line ℓ_1
 45 : $P_{50} = (15, 0, 1, 0)$ lies on line ℓ_1
 46 : $P_{51} = (16, 0, 1, 0)$ lies on line ℓ_1
 47 : $P_{52} = (17, 0, 1, 0)$ lies on line ℓ_1
 48 : $P_{53} = (18, 0, 1, 0)$ lies on line ℓ_1
 49 : $P_{54} = (19, 0, 1, 0)$ lies on line ℓ_1
 50 : $P_{55} = (20, 0, 1, 0)$ lies on line ℓ_1
 51 : $P_{56} = (21, 0, 1, 0)$ lies on line ℓ_1
 52 : $P_{57} = (22, 0, 1, 0)$ lies on line ℓ_1
 53 : $P_{58} = (23, 0, 1, 0)$ lies on line ℓ_1
 54 : $P_{59} = (24, 0, 1, 0)$ lies on line ℓ_1
 55 : $P_{60} = (25, 0, 1, 0)$ lies on line ℓ_1
 56 : $P_{61} = (26, 0, 1, 0)$ lies on line ℓ_1
 57 : $P_{62} = (27, 0, 1, 0)$ lies on line ℓ_1
 58 : $P_{63} = (28, 0, 1, 0)$ lies on line ℓ_1
 59 : $P_{64} = (29, 0, 1, 0)$ lies on line ℓ_1
 60 : $P_{65} = (30, 0, 1, 0)$ lies on line ℓ_1
 61 : $P_{66} = (31, 0, 1, 0)$ lies on line ℓ_1
 62 : $P_{68} = (1, 1, 1, 0)$ lies on line ℓ_2
 63 : $P_{101} = (2, 2, 1, 0)$ lies on line ℓ_2
 64 : $P_{134} = (3, 3, 1, 0)$ lies on line ℓ_2
 65 : $P_{167} = (4, 4, 1, 0)$ lies on line ℓ_2
 66 : $P_{200} = (5, 5, 1, 0)$ lies on line ℓ_2
 67 : $P_{233} = (6, 6, 1, 0)$ lies on line ℓ_2
 68 : $P_{266} = (7, 7, 1, 0)$ lies on line ℓ_2
 69 : $P_{299} = (8, 8, 1, 0)$ lies on line ℓ_2
 70 : $P_{332} = (9, 9, 1, 0)$ lies on line ℓ_2
 71 : $P_{365} = (10, 10, 1, 0)$ lies on line ℓ_2
 72 : $P_{398} = (11, 11, 1, 0)$ lies on line ℓ_2
 73 : $P_{431} = (12, 12, 1, 0)$ lies on line ℓ_2
 74 : $P_{464} = (13, 13, 1, 0)$ lies on line ℓ_2
 75 : $P_{497} = (14, 14, 1, 0)$ lies on line ℓ_2
 76 : $P_{530} = (15, 15, 1, 0)$ lies on line ℓ_2
 77 : $P_{563} = (16, 16, 1, 0)$ lies on line ℓ_2
 78 : $P_{596} = (17, 17, 1, 0)$ lies on line ℓ_2
 79 : $P_{629} = (18, 18, 1, 0)$ lies on line ℓ_2

80 : $P_{662} = (19, 19, 1, 0)$ lies on line ℓ_2
 81 : $P_{695} = (20, 20, 1, 0)$ lies on line ℓ_2
 82 : $P_{728} = (21, 21, 1, 0)$ lies on line ℓ_2
 83 : $P_{761} = (22, 22, 1, 0)$ lies on line ℓ_2
 84 : $P_{794} = (23, 23, 1, 0)$ lies on line ℓ_2
 85 : $P_{827} = (24, 24, 1, 0)$ lies on line ℓ_2
 86 : $P_{860} = (25, 25, 1, 0)$ lies on line ℓ_2
 87 : $P_{893} = (26, 26, 1, 0)$ lies on line ℓ_2
 88 : $P_{926} = (27, 27, 1, 0)$ lies on line ℓ_2
 89 : $P_{959} = (28, 28, 1, 0)$ lies on line ℓ_2
 90 : $P_{992} = (29, 29, 1, 0)$ lies on line ℓ_2
 91 : $P_{1025} = (30, 30, 1, 0)$ lies on line ℓ_2
 92 : $P_{1058} = (31, 31, 1, 0)$ lies on line ℓ_2
 93 : $P_{1091} = (1, 1, 0, 1)$ lies on line ℓ_6
 94 : $P_{2115} = (2, 1, 1, 1)$ lies on line ℓ_3
 95 : $P_{2116} = (3, 1, 1, 1)$ lies on line ℓ_3
 96 : $P_{2117} = (4, 1, 1, 1)$ lies on line ℓ_3
 97 : $P_{2118} = (5, 1, 1, 1)$ lies on line ℓ_3
 98 : $P_{2119} = (6, 1, 1, 1)$ lies on line ℓ_3
 99 : $P_{2120} = (7, 1, 1, 1)$ lies on line ℓ_3
 100 : $P_{2121} = (8, 1, 1, 1)$ lies on line ℓ_3
 101 : $P_{2122} = (9, 1, 1, 1)$ lies on line ℓ_3
 102 : $P_{2123} = (10, 1, 1, 1)$ lies on line ℓ_3
 103 : $P_{2124} = (11, 1, 1, 1)$ lies on line ℓ_3
 104 : $P_{2125} = (12, 1, 1, 1)$ lies on line ℓ_3
 105 : $P_{2126} = (13, 1, 1, 1)$ lies on line ℓ_3
 106 : $P_{2127} = (14, 1, 1, 1)$ lies on line ℓ_3
 107 : $P_{2128} = (15, 1, 1, 1)$ lies on line ℓ_3
 108 : $P_{2129} = (16, 1, 1, 1)$ lies on line ℓ_3
 109 : $P_{2130} = (17, 1, 1, 1)$ lies on line ℓ_3
 110 : $P_{2131} = (18, 1, 1, 1)$ lies on line ℓ_3
 111 : $P_{2132} = (19, 1, 1, 1)$ lies on line ℓ_3
 112 : $P_{2133} = (20, 1, 1, 1)$ lies on line ℓ_3
 113 : $P_{2134} = (21, 1, 1, 1)$ lies on line ℓ_3
 114 : $P_{2135} = (22, 1, 1, 1)$ lies on line ℓ_3
 115 : $P_{2136} = (23, 1, 1, 1)$ lies on line ℓ_3
 116 : $P_{2137} = (24, 1, 1, 1)$ lies on line ℓ_3
 117 : $P_{2138} = (25, 1, 1, 1)$ lies on line ℓ_3
 118 : $P_{2139} = (26, 1, 1, 1)$ lies on line ℓ_3
 119 : $P_{2140} = (27, 1, 1, 1)$ lies on line ℓ_3
 120 : $P_{2141} = (28, 1, 1, 1)$ lies on line ℓ_3
 121 : $P_{2142} = (29, 1, 1, 1)$ lies on line ℓ_3
 122 : $P_{2143} = (30, 1, 1, 1)$ lies on line ℓ_3
 123 : $P_{2144} = (31, 1, 1, 1)$ lies on line ℓ_3
 124 : $P_{2145} = (0, 2, 1, 1)$ lies on line ℓ_4
 125 : $P_{2177} = (0, 3, 1, 1)$ lies on line ℓ_4
 126 : $P_{2209} = (0, 4, 1, 1)$ lies on line ℓ_4
 127 : $P_{2241} = (0, 5, 1, 1)$ lies on line ℓ_4
 128 : $P_{2273} = (0, 6, 1, 1)$ lies on line ℓ_4
 129 : $P_{2305} = (0, 7, 1, 1)$ lies on line ℓ_4
 130 : $P_{2337} = (0, 8, 1, 1)$ lies on line ℓ_4
 131 : $P_{2369} = (0, 9, 1, 1)$ lies on line ℓ_4
 132 : $P_{2401} = (0, 10, 1, 1)$ lies on line ℓ_4
 133 : $P_{2433} = (0, 11, 1, 1)$ lies on line ℓ_4

134 : $P_{2465} = (0, 12, 1, 1)$ lies on line ℓ_4
 135 : $P_{2497} = (0, 13, 1, 1)$ lies on line ℓ_4
 136 : $P_{2529} = (0, 14, 1, 1)$ lies on line ℓ_4
 137 : $P_{2561} = (0, 15, 1, 1)$ lies on line ℓ_4
 138 : $P_{2593} = (0, 16, 1, 1)$ lies on line ℓ_4
 139 : $P_{2625} = (0, 17, 1, 1)$ lies on line ℓ_4
 140 : $P_{2657} = (0, 18, 1, 1)$ lies on line ℓ_4
 141 : $P_{2689} = (0, 19, 1, 1)$ lies on line ℓ_4
 142 : $P_{2721} = (0, 20, 1, 1)$ lies on line ℓ_4
 143 : $P_{2753} = (0, 21, 1, 1)$ lies on line ℓ_4
 144 : $P_{2785} = (0, 22, 1, 1)$ lies on line ℓ_4
 145 : $P_{2817} = (0, 23, 1, 1)$ lies on line ℓ_4
 146 : $P_{2849} = (0, 24, 1, 1)$ lies on line ℓ_4
 147 : $P_{2881} = (0, 25, 1, 1)$ lies on line ℓ_4
 148 : $P_{2913} = (0, 26, 1, 1)$ lies on line ℓ_4
 149 : $P_{2945} = (0, 27, 1, 1)$ lies on line ℓ_4
 150 : $P_{2977} = (0, 28, 1, 1)$ lies on line ℓ_4
 151 : $P_{3009} = (0, 29, 1, 1)$ lies on line ℓ_4
 152 : $P_{3041} = (0, 30, 1, 1)$ lies on line ℓ_4
 153 : $P_{3073} = (0, 31, 1, 1)$ lies on line ℓ_4
 154 : $P_{3105} = (0, 0, 2, 1)$ lies on line ℓ_5
 155 : $P_{3138} = (1, 1, 2, 1)$ lies on line ℓ_6
 156 : $P_{4129} = (0, 0, 3, 1)$ lies on line ℓ_5
 157 : $P_{4162} = (1, 1, 3, 1)$ lies on line ℓ_6
 158 : $P_{5153} = (0, 0, 4, 1)$ lies on line ℓ_5
 159 : $P_{5186} = (1, 1, 4, 1)$ lies on line ℓ_6
 160 : $P_{6177} = (0, 0, 5, 1)$ lies on line ℓ_5
 161 : $P_{6210} = (1, 1, 5, 1)$ lies on line ℓ_6
 162 : $P_{7201} = (0, 0, 6, 1)$ lies on line ℓ_5
 163 : $P_{7234} = (1, 1, 6, 1)$ lies on line ℓ_6
 164 : $P_{8225} = (0, 0, 7, 1)$ lies on line ℓ_5
 165 : $P_{8258} = (1, 1, 7, 1)$ lies on line ℓ_6
 166 : $P_{9249} = (0, 0, 8, 1)$ lies on line ℓ_5
 167 : $P_{9282} = (1, 1, 8, 1)$ lies on line ℓ_6
 168 : $P_{10273} = (0, 0, 9, 1)$ lies on line ℓ_5
 169 : $P_{10306} = (1, 1, 9, 1)$ lies on line ℓ_6
 170 : $P_{11297} = (0, 0, 10, 1)$ lies on line ℓ_5
 171 : $P_{11330} = (1, 1, 10, 1)$ lies on line ℓ_6
 172 : $P_{12321} = (0, 0, 11, 1)$ lies on line ℓ_5
 173 : $P_{12354} = (1, 1, 11, 1)$ lies on line ℓ_6
 174 : $P_{13345} = (0, 0, 12, 1)$ lies on line ℓ_5
 175 : $P_{13378} = (1, 1, 12, 1)$ lies on line ℓ_6
 176 : $P_{14369} = (0, 0, 13, 1)$ lies on line ℓ_5
 177 : $P_{14402} = (1, 1, 13, 1)$ lies on line ℓ_6
 178 : $P_{15393} = (0, 0, 14, 1)$ lies on line ℓ_5
 179 : $P_{15426} = (1, 1, 14, 1)$ lies on line ℓ_6
 180 : $P_{16417} = (0, 0, 15, 1)$ lies on line ℓ_5
 181 : $P_{16450} = (1, 1, 15, 1)$ lies on line ℓ_6
 182 : $P_{17441} = (0, 0, 16, 1)$ lies on line ℓ_5
 183 : $P_{17474} = (1, 1, 16, 1)$ lies on line ℓ_6
 184 : $P_{18465} = (0, 0, 17, 1)$ lies on line ℓ_5
 185 : $P_{18498} = (1, 1, 17, 1)$ lies on line ℓ_6
 186 : $P_{19489} = (0, 0, 18, 1)$ lies on line ℓ_5
 187 : $P_{19522} = (1, 1, 18, 1)$ lies on line ℓ_6
 188 : $P_{20513} = (0, 0, 19, 1)$ lies on line ℓ_5
 189 : $P_{20546} = (1, 1, 19, 1)$ lies on line ℓ_6
 190 : $P_{21537} = (0, 0, 20, 1)$ lies on line ℓ_5
 191 : $P_{21570} = (1, 1, 20, 1)$ lies on line ℓ_6
 192 : $P_{22561} = (0, 0, 21, 1)$ lies on line ℓ_5
 193 : $P_{22594} = (1, 1, 21, 1)$ lies on line ℓ_6
 194 : $P_{23585} = (0, 0, 22, 1)$ lies on line ℓ_5
 195 : $P_{23618} = (1, 1, 22, 1)$ lies on line ℓ_6
 196 : $P_{24609} = (0, 0, 23, 1)$ lies on line ℓ_5
 197 : $P_{24642} = (1, 1, 23, 1)$ lies on line ℓ_6
 198 : $P_{25633} = (0, 0, 24, 1)$ lies on line ℓ_5
 199 : $P_{25666} = (1, 1, 24, 1)$ lies on line ℓ_6
 200 : $P_{26657} = (0, 0, 25, 1)$ lies on line ℓ_5
 201 : $P_{26690} = (1, 1, 25, 1)$ lies on line ℓ_6
 202 : $P_{27681} = (0, 0, 26, 1)$ lies on line ℓ_5
 203 : $P_{27714} = (1, 1, 26, 1)$ lies on line ℓ_6
 204 : $P_{28705} = (0, 0, 27, 1)$ lies on line ℓ_5
 205 : $P_{28738} = (1, 1, 27, 1)$ lies on line ℓ_6
 206 : $P_{29729} = (0, 0, 28, 1)$ lies on line ℓ_5
 207 : $P_{29762} = (1, 1, 28, 1)$ lies on line ℓ_6
 208 : $P_{30753} = (0, 0, 29, 1)$ lies on line ℓ_5
 209 : $P_{30786} = (1, 1, 29, 1)$ lies on line ℓ_6
 210 : $P_{31777} = (0, 0, 30, 1)$ lies on line ℓ_5
 211 : $P_{31810} = (1, 1, 30, 1)$ lies on line ℓ_6
 212 : $P_{32801} = (0, 0, 31, 1)$ lies on line ℓ_5
 213 : $P_{32834} = (1, 1, 31, 1)$ lies on line ℓ_6

The single points on the surface are:

Points on surface but on no line

The surface has 900 points not on any line:

The points on the surface but not on lines are:

0 : $P_{1126} = (4, 2, 0, 1)$
 1 : $P_{1159} = (5, 3, 0, 1)$
 2 : $P_{1202} = (16, 4, 0, 1)$
 3 : $P_{1235} = (17, 5, 0, 1)$
 4 : $P_{1270} = (20, 6, 0, 1)$
 5 : $P_{1303} = (21, 7, 0, 1)$

6 : $P_{1324} = (10, 8, 0, 1)$	60 : $P_{4241} = (16, 3, 3, 1)$
7 : $P_{1357} = (11, 9, 0, 1)$	61 : $P_{4279} = (22, 4, 3, 1)$
8 : $P_{1392} = (14, 10, 0, 1)$	62 : $P_{4307} = (18, 5, 3, 1)$
9 : $P_{1425} = (15, 11, 0, 1)$	63 : $P_{4335} = (14, 6, 3, 1)$
10 : $P_{1468} = (26, 12, 0, 1)$	64 : $P_{4365} = (12, 7, 3, 1)$
11 : $P_{1501} = (27, 13, 0, 1)$	65 : $P_{4413} = (28, 8, 3, 1)$
12 : $P_{1536} = (30, 14, 0, 1)$	66 : $P_{4423} = (6, 9, 3, 1)$
13 : $P_{1569} = (31, 15, 0, 1)$	67 : $P_{4458} = (9, 10, 3, 1)$
14 : $P_{1583} = (13, 16, 0, 1)$	68 : $P_{4488} = (7, 11, 3, 1)$
15 : $P_{1614} = (12, 17, 0, 1)$	69 : $P_{4519} = (6, 12, 3, 1)$
16 : $P_{1643} = (9, 18, 0, 1)$	70 : $P_{4557} = (12, 13, 3, 1)$
17 : $P_{1674} = (8, 19, 0, 1)$	71 : $P_{4590} = (13, 14, 3, 1)$
18 : $P_{1727} = (29, 20, 0, 1)$	72 : $P_{4623} = (14, 15, 3, 1)$
19 : $P_{1758} = (28, 21, 0, 1)$	73 : $P_{4645} = (4, 16, 3, 1)$
20 : $P_{1787} = (25, 22, 0, 1)$	74 : $P_{4696} = (23, 17, 3, 1)$
21 : $P_{1818} = (24, 23, 0, 1)$	75 : $P_{4706} = (1, 18, 3, 1)$
22 : $P_{1833} = (7, 24, 0, 1)$	76 : $P_{4762} = (25, 19, 3, 1)$
23 : $P_{1864} = (6, 25, 0, 1)$	77 : $P_{4794} = (25, 20, 3, 1)$
24 : $P_{1893} = (3, 26, 0, 1)$	78 : $P_{4810} = (9, 21, 3, 1)$
25 : $P_{1924} = (2, 27, 0, 1)$	79 : $P_{4837} = (4, 22, 3, 1)$
26 : $P_{1977} = (23, 28, 0, 1)$	80 : $P_{4878} = (13, 23, 3, 1)$
27 : $P_{2008} = (22, 29, 0, 1)$	81 : $P_{4912} = (15, 24, 3, 1)$
28 : $P_{2037} = (19, 30, 0, 1)$	82 : $P_{4951} = (22, 25, 3, 1)$
29 : $P_{2068} = (18, 31, 0, 1)$	83 : $P_{4989} = (28, 26, 3, 1)$
30 : $P_{3200} = (31, 2, 2, 1)$	84 : $P_{5009} = (16, 27, 3, 1)$
31 : $P_{3215} = (14, 3, 2, 1)$	85 : $P_{5064} = (7, 29, 3, 1)$
32 : $P_{3263} = (30, 4, 2, 1)$	86 : $P_{5107} = (18, 30, 3, 1)$
33 : $P_{3267} = (2, 5, 2, 1)$	87 : $P_{5144} = (23, 31, 3, 1)$
34 : $P_{3316} = (19, 6, 2, 1)$	88 : $P_{5243} = (26, 2, 4, 1)$
35 : $P_{3348} = (19, 7, 2, 1)$	89 : $P_{5253} = (4, 3, 4, 1)$
36 : $P_{3390} = (29, 8, 2, 1)$	90 : $P_{5299} = (18, 4, 4, 1)$
37 : $P_{3415} = (22, 9, 2, 1)$	91 : $P_{5343} = (30, 5, 4, 1)$
38 : $P_{3438} = (13, 10, 2, 1)$	92 : $P_{5348} = (3, 6, 4, 1)$
39 : $P_{3488} = (31, 11, 2, 1)$	93 : $P_{5405} = (28, 7, 4, 1)$
40 : $P_{3493} = (4, 12, 2, 1)$	94 : $P_{5435} = (26, 8, 4, 1)$
41 : $P_{3524} = (3, 13, 2, 1)$	95 : $P_{5495} = (22, 10, 4, 1)$
42 : $P_{3575} = (22, 14, 2, 1)$	96 : $P_{5530} = (25, 11, 4, 1)$
43 : $P_{3588} = (3, 15, 2, 1)$	97 : $P_{5557} = (20, 12, 4, 1)$
44 : $P_{3647} = (30, 16, 2, 1)$	98 : $P_{5588} = (19, 13, 4, 1)$
45 : $P_{3655} = (6, 17, 2, 1)$	99 : $P_{5628} = (27, 14, 4, 1)$
46 : $P_{3725} = (12, 19, 2, 1)$	100 : $P_{5651} = (18, 15, 4, 1)$
47 : $P_{3759} = (14, 20, 2, 1)$	101 : $P_{5684} = (19, 16, 4, 1)$
48 : $P_{3783} = (6, 21, 2, 1)$	102 : $P_{5701} = (4, 17, 4, 1)$
49 : $P_{3835} = (26, 22, 2, 1)$	103 : $P_{5756} = (27, 18, 4, 1)$
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53 : $P_{3939} = (2, 26, 2, 1)$	107 : $P_{5885} = (28, 22, 4, 1)$
54 : $P_{3981} = (12, 27, 2, 1)$	108 : $P_{5890} = (1, 23, 4, 1)$
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56 : $P_{4054} = (21, 29, 2, 1)$	110 : $P_{5956} = (3, 25, 4, 1)$
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58 : $P_{4110} = (13, 31, 2, 1)$	112 : $P_{6022} = (5, 27, 4, 1)$
59 : $P_{4208} = (15, 2, 3, 1)$	113 : $P_{6069} = (20, 28, 4, 1)$

114 : $P_{6111} = (30, 29, 4, 1)$	168 : $P_{8028} = (27, 25, 6, 1)$
115 : $P_{6138} = (25, 30, 4, 1)$	169 : $P_{8041} = (8, 26, 6, 1)$
116 : $P_{6150} = (5, 31, 4, 1)$	170 : $P_{8069} = (4, 27, 6, 1)$
117 : $P_{6254} = (13, 2, 5, 1)$	171 : $P_{8103} = (6, 28, 6, 1)$
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122 : $P_{6432} = (31, 7, 5, 1)$	176 : $P_{8345} = (24, 3, 7, 1)$
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124 : $P_{6466} = (1, 9, 5, 1)$	178 : $P_{8397} = (12, 5, 7, 1)$
125 : $P_{6520} = (23, 10, 5, 1)$	179 : $P_{8443} = (26, 6, 7, 1)$
126 : $P_{6549} = (20, 11, 5, 1)$	180 : $P_{8457} = (8, 7, 7, 1)$
127 : $P_{6585} = (24, 12, 5, 1)$	181 : $P_{8495} = (14, 8, 7, 1)$
128 : $P_{6609} = (16, 13, 5, 1)$	182 : $P_{8531} = (18, 9, 7, 1)$
129 : $P_{6636} = (11, 14, 5, 1)$	183 : $P_{8547} = (2, 10, 7, 1)$
130 : $P_{6678} = (21, 15, 5, 1)$	184 : $P_{8589} = (12, 11, 7, 1)$
131 : $P_{6714} = (25, 16, 5, 1)$	185 : $P_{8671} = (30, 13, 7, 1)$
132 : $P_{6730} = (9, 17, 5, 1)$	186 : $P_{8674} = (1, 14, 7, 1)$
133 : $P_{6777} = (24, 18, 5, 1)$	187 : $P_{8710} = (5, 15, 7, 1)$
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136 : $P_{6875} = (26, 21, 5, 1)$	190 : $P_{8829} = (28, 18, 7, 1)$
137 : $P_{6902} = (21, 22, 5, 1)$	191 : $P_{8844} = (11, 19, 7, 1)$
138 : $P_{6972} = (27, 24, 5, 1)$	192 : $P_{8867} = (2, 20, 7, 1)$
139 : $P_{6993} = (16, 25, 5, 1)$	193 : $P_{8908} = (11, 21, 7, 1)$
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143 : $P_{7111} = (6, 29, 5, 1)$	197 : $P_{9030} = (5, 25, 7, 1)$
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146 : $P_{7270} = (5, 2, 6, 1)$	200 : $P_{9139} = (18, 28, 7, 1)$
147 : $P_{7309} = (12, 3, 6, 1)$	201 : $P_{9176} = (23, 29, 7, 1)$
148 : $P_{7353} = (24, 4, 6, 1)$	202 : $P_{9208} = (23, 30, 7, 1)$
149 : $P_{7371} = (10, 5, 6, 1)$	203 : $P_{9241} = (24, 31, 7, 1)$
150 : $P_{7404} = (11, 6, 6, 1)$	204 : $P_{9337} = (24, 2, 8, 1)$
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152 : $P_{7474} = (17, 8, 6, 1)$	206 : $P_{9378} = (1, 4, 8, 1)$
153 : $P_{7502} = (13, 9, 6, 1)$	207 : $P_{9415} = (6, 5, 8, 1)$
154 : $P_{7525} = (4, 10, 6, 1)$	208 : $P_{9450} = (9, 6, 8, 1)$
155 : $P_{7570} = (17, 11, 6, 1)$	209 : $P_{9493} = (20, 7, 8, 1)$
156 : $P_{7586} = (1, 12, 6, 1)$	210 : $P_{9518} = (13, 8, 8, 1)$
157 : $P_{7641} = (24, 13, 6, 1)$	211 : $P_{9557} = (20, 9, 8, 1)$
158 : $P_{7701} = (20, 15, 6, 1)$	212 : $P_{9594} = (25, 10, 8, 1)$
159 : $P_{7733} = (20, 16, 6, 1)$	213 : $P_{9617} = (16, 11, 8, 1)$
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162 : $P_{7823} = (14, 19, 6, 1)$	216 : $P_{9706} = (9, 14, 8, 1)$
163 : $P_{7863} = (22, 20, 6, 1)$	217 : $P_{9756} = (27, 15, 8, 1)$
164 : $P_{7885} = (12, 21, 6, 1)$	218 : $P_{9792} = (31, 16, 8, 1)$
165 : $P_{7916} = (11, 22, 6, 1)$	219 : $P_{9809} = (16, 17, 8, 1)$
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167 : $P_{7979} = (10, 24, 6, 1)$	221 : $P_{9887} = (30, 19, 8, 1)$

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 848 : $P_{32064} = (31, 8, 30, 1)$
 849 : $P_{32081} = (16, 9, 30, 1)$
 850 : $P_{32114} = (17, 10, 30, 1)$
 851 : $P_{32147} = (18, 11, 30, 1)$
 852 : $P_{32178} = (17, 12, 30, 1)$
 853 : $P_{32221} = (28, 13, 30, 1)$
 854 : $P_{32235} = (10, 14, 30, 1)$
 855 : $P_{32281} = (24, 15, 30, 1)$
 856 : $P_{32311} = (22, 16, 30, 1)$
 857 : $P_{32331} = (10, 17, 30, 1)$
 858 : $P_{32355} = (2, 18, 30, 1)$
 859 : $P_{32414} = (29, 19, 30, 1)$
 860 : $P_{32465} = (16, 21, 30, 1)$
 861 : $P_{32512} = (31, 22, 30, 1)$
 862 : $P_{32538} = (25, 23, 30, 1)$
 863 : $P_{32573} = (28, 24, 30, 1)$
 864 : $P_{32581} = (4, 25, 30, 1)$
 865 : $P_{32631} = (22, 26, 30, 1)$
 866 : $P_{32642} = (1, 27, 30, 1)$
 867 : $P_{32702} = (29, 28, 30, 1)$
 868 : $P_{32729} = (24, 29, 30, 1)$
 869 : $P_{32741} = (4, 30, 30, 1)$

870 : $P_{32794} = (25, 31, 30, 1)$
 871 : $P_{32884} = (19, 2, 31, 1)$
 872 : $P_{32927} = (30, 3, 31, 1)$
 873 : $P_{32938} = (9, 4, 31, 1)$
 874 : $P_{32984} = (23, 5, 31, 1)$
 875 : $P_{32997} = (4, 6, 31, 1)$
 876 : $P_{33028} = (3, 7, 31, 1)$
 877 : $P_{33066} = (9, 8, 31, 1)$
 878 : $P_{33099} = (10, 9, 31, 1)$
 879 : $P_{33128} = (7, 10, 31, 1)$
 880 : $P_{33175} = (22, 11, 31, 1)$
 881 : $P_{33200} = (15, 12, 31, 1)$
 882 : $P_{33239} = (22, 13, 31, 1)$
 883 : $P_{33256} = (7, 14, 31, 1)$
 884 : $P_{33300} = (19, 15, 31, 1)$
 885 : $P_{33337} = (24, 16, 31, 1)$

886 : $P_{33360} = (15, 17, 31, 1)$
 887 : $P_{33403} = (26, 18, 31, 1)$
 888 : $P_{33435} = (26, 19, 31, 1)$
 889 : $P_{33442} = (1, 20, 31, 1)$
 890 : $P_{33490} = (17, 21, 31, 1)$
 891 : $P_{33528} = (23, 22, 31, 1)$
 892 : $P_{33554} = (17, 23, 31, 1)$
 893 : $P_{33573} = (4, 24, 31, 1)$
 894 : $P_{33612} = (11, 25, 31, 1)$
 895 : $P_{33644} = (11, 26, 31, 1)$
 896 : $P_{33727} = (30, 28, 31, 1)$
 897 : $P_{33732} = (3, 29, 31, 1)$
 898 : $P_{33785} = (24, 30, 31, 1)$
 899 : $P_{33803} = (10, 31, 31, 1)$

Line Intersection Graph

	0	1	2	3	4	5	6
0	0	1	1	1	1	0	0
1	1	0	1	1	0	1	1
2	1	1	0	0	0	1	1
3	1	1	0	0	1	0	1
4	1	0	0	1	0	1	0
5	0	1	1	0	1	0	1
6	0	1	1	1	0	1	0

Neighbor sets in the line intersection graph:

Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4
in point	P_0	P_5	P_0	P_1

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_5	ℓ_6
in point	P_0	P_2	P_0	P_2	P_2

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_5	ℓ_6
in point	P_5	P_2	P_2	P_2

Line 3 intersects

Line	ℓ_0	ℓ_1	ℓ_4	ℓ_6
in point	P_0	P_0	P_{2114}	P_4

Line 4 intersects

Line	ℓ_0	ℓ_3	ℓ_5
in point	P_1	P_{2114}	P_{2082}

Line 5 intersects

Line	ℓ_1	ℓ_2	ℓ_4	ℓ_6
in point	P_2	P_2	P_{2082}	P_2

Line 6 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_5
in point	P_2	P_2	P_4	P_2

The surface has 1121 points:

Too many to print.