Rank-65921 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(0, 1, 1, 1, 1, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2078209979

General information

Number of lines	6
Number of points	1121
Number of singular points	1
Number of Eckardt points	1
Number of double points	6
Number of single points	183
Number of points off lines	931
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^6
Type of lines on points	3, 2^6, 1^{183}, 0^{931}

Singular Points

The surface has 1 singular points:

$0: \ P_{2083} = \mathbf{P}(1,0,1,1) = \mathbf{P}(1,0,1,1)$

The 6 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{32} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{32} = \mathbf{Pl}(1,0,0,0,1,0)_{1090}$$

$$\ell_1 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1025} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1025} = \mathbf{Pl}(0,0,1,0,1,0)_{1152}$$

$$\ell_2 = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2082} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{2082} = \mathbf{Pl}(0,0,1,1,1,1)_{70562}$$

$$\ell_3 = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{34914} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{34914} = \mathbf{Pl}(1,0,1,1,1,1)_{70563}$$

$$\ell_4 = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33857} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33857} = \mathbf{Pl}(1,1,1,1,1,0)_{5058}$$

$$\ell_5 = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{34913} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 0 & 1 \end{bmatrix}_{34913} = \mathbf{Pl}(1,1,0,1,1,1)_{69601}$$

Rank of lines: (32, 1025, 2082, 34914, 33857, 34913)
Rank of points on Klein quadric: (1090, 1152, 70562, 70563, 5058, 69601)

Eckardt Points

The surface has 1 Eckardt points:
$0 : P_{2083} = \mathbf{P}(1,0,1,1) = \mathbf{P}(1,0,1,1)$.

Double Points

The surface has 6 Double points:
The double points on the surface are:

$P_0 = (1,0,0,0) = \ell_0 \cap \ell_1$
$P_{1090} = (0,1,0,1) = \ell_0 \cap \ell_5$
$P_{2082} = (0,0,1,1) = \ell_1 \cap \ell_2$
$P_5 = (1,1,0,0) = \ell_2 \cap \ell_3$
$P_{2114} = (0,1,1,1) = \ell_3 \cap \ell_4$
$P_{68} = (1,1,1,0) = \ell_4 \cap \ell_5$

Single Points

The surface has 183 single points:
The single points on the surface are:

$0 : P_4 = (1,1,1,1)$ lies on line ℓ_2
$1 : P_{1059} = (1,0,0,1)$ lies on line ℓ_4
$2 : P_{1091} = (1,1,0,1)$ lies on line ℓ_0
$3 : P_{1092} = (2,1,0,1)$ lies on line ℓ_0
$4 : P_{1093} = (3,1,0,1)$ lies on line ℓ_0
$5 : P_{1094} = (4,1,0,1)$ lies on line ℓ_0
$6 : P_{1095} = (5,1,0,1)$ lies on line ℓ_0
$7 : P_{1096} = (6,1,0,1)$ lies on line ℓ_0
$8 : P_{1097} = (7,1,0,1)$ lies on line ℓ_0
$9 : P_{1098} = (8,1,0,1)$ lies on line ℓ_0
$10 : P_{1099} = (9,1,0,1)$ lies on line ℓ_0
$11 : P_{1100} = (10,1,0,1)$ lies on line ℓ_0
$12 : P_{1101} = (11,1,0,1)$ lies on line ℓ_0
$13 : P_{1102} = (12,1,0,1)$ lies on line ℓ_0
$14 : P_{1103} = (13,1,0,1)$ lies on line ℓ_0
$15 : P_{1104} = (14,1,0,1)$ lies on line ℓ_0
$16 : P_{1105} = (15,1,0,1)$ lies on line ℓ_0
$17 : P_{1106} = (16,1,0,1)$ lies on line ℓ_0
$18 : P_{1107} = (17,1,0,1)$ lies on line ℓ_0
$19 : P_{1108} = (18,1,0,1)$ lies on line ℓ_0
$20 : P_{1109} = (19,1,0,1)$ lies on line ℓ_0
$21 : P_{1110} = (20,1,0,1)$ lies on line ℓ_0
$22 : P_{1111} = (21,1,0,1)$ lies on line ℓ_0
$23 : P_{1112} = (22,1,0,1)$ lies on line ℓ_0
$24 : P_{1113} = (23,1,0,1)$ lies on line ℓ_0
$25 : P_{1114} = (24,1,0,1)$ lies on line ℓ_0
$26 : P_{1115} = (25,1,0,1)$ lies on line ℓ_0
$27 : P_{1116} = (26,1,0,1)$ lies on line ℓ_0
$28 : P_{1117} = (27,1,0,1)$ lies on line ℓ_0
$29 : P_{1118} = (28,1,0,1)$ lies on line ℓ_0

30 : $P_{1119} = (29, 1, 0, 1)$ lies on line ℓ_0
31 : $P_{1120} = (30, 1, 0, 1)$ lies on line ℓ_0
32 : $P_{1121} = (31, 1, 0, 1)$ lies on line ℓ_0
33 : $P_{2084} = (2, 0, 1, 1)$ lies on line ℓ_1
34 : $P_{2085} = (3, 0, 1, 1)$ lies on line ℓ_1
35 : $P_{2086} = (4, 0, 1, 1)$ lies on line ℓ_1
36 : $P_{2087} = (5, 0, 1, 1)$ lies on line ℓ_1
37 : $P_{2088} = (6, 0, 1, 1)$ lies on line ℓ_1
38 : $P_{2089} = (7, 0, 1, 1)$ lies on line ℓ_1
39 : $P_{2090} = (8, 0, 1, 1)$ lies on line ℓ_1
40 : $P_{2091} = (9, 0, 1, 1)$ lies on line ℓ_1
41 : $P_{2092} = (10, 0, 1, 1)$ lies on line ℓ_1
42 : $P_{2093} = (11, 0, 1, 1)$ lies on line ℓ_1
43 : $P_{2094} = (12, 0, 1, 1)$ lies on line ℓ_1
44 : $P_{2095} = (13, 0, 1, 1)$ lies on line ℓ_1
45 : $P_{2096} = (14, 0, 1, 1)$ lies on line ℓ_1
46 : $P_{2097} = (15, 0, 1, 1)$ lies on line ℓ_1
47 : $P_{2098} = (16, 0, 1, 1)$ lies on line ℓ_1
48 : $P_{2099} = (17, 0, 1, 1)$ lies on line ℓ_1
49 : $P_{2100} = (18, 0, 1, 1)$ lies on line ℓ_1
50 : $P_{2101} = (19, 0, 1, 1)$ lies on line ℓ_1
51 : $P_{2102} = (20, 0, 1, 1)$ lies on line ℓ_1
52 : $P_{2103} = (21, 0, 1, 1)$ lies on line ℓ_1
53 : $P_{2104} = (22, 0, 1, 1)$ lies on line ℓ_1
54 : $P_{2105} = (23, 0, 1, 1)$ lies on line ℓ_1
55 : $P_{2106} = (24, 0, 1, 1)$ lies on line ℓ_1
56 : $P_{2107} = (25, 0, 1, 1)$ lies on line ℓ_1
57 : $P_{2108} = (26, 0, 1, 1)$ lies on line ℓ_1
58 : $P_{2109} = (27, 0, 1, 1)$ lies on line ℓ_1
59 : $P_{2110} = (28, 0, 1, 1)$ lies on line ℓ_1
60 : $P_{2111} = (29, 0, 1, 1)$ lies on line ℓ_1
61 : $P_{2112} = (30, 0, 1, 1)$ lies on line ℓ_1
62 : $P_{2113} = (31, 0, 1, 1)$ lies on line ℓ_1
63 : $P_{2147} = (2, 2, 1, 1)$ lies on line ℓ_2
64 : $P_{2148} = (3, 2, 1, 1)$ lies on line ℓ_3
65 : $P_{2179} = (2, 3, 1, 1)$ lies on line ℓ_3
66 : $P_{2180} = (3, 3, 1, 1)$ lies on line ℓ_2
67 : $P_{2213} = (4, 4, 1, 1)$ lies on line ℓ_2
68 : $P_{2214} = (5, 4, 1, 1)$ lies on line ℓ_3
69 : $P_{2245} = (4, 5, 1, 1)$ lies on line ℓ_3
70 : $P_{2246} = (5, 5, 1, 1)$ lies on line ℓ_2
71 : $P_{2279} = (6, 6, 1, 1)$ lies on line ℓ_2
72 : $P_{2280} = (7, 6, 1, 1)$ lies on line ℓ_3
73 : $P_{2311} = (6, 7, 1, 1)$ lies on line ℓ_3
74 : $P_{2312} = (7, 7, 1, 1)$ lies on line ℓ_2
75 : $P_{2345} = (8, 8, 1, 1)$ lies on line ℓ_2
76 : $P_{2346} = (9, 8, 1, 1)$ lies on line ℓ_3
77 : $P_{2377} = (8, 9, 1, 1)$ lies on line ℓ_3
78 : $P_{2378} = (9, 9, 1, 1)$ lies on line ℓ_2
79 : $P_{2411} = (10, 10, 1, 1)$ lies on line ℓ_2
80 : $P_{2412} = (11, 10, 1, 1)$ lies on line ℓ_3
81 : $P_{2443} = (10, 11, 1, 1)$ lies on line ℓ_3
82 : $P_{2444} = (11, 11, 1, 1)$ lies on line ℓ_2
83 : $P_{2477} = (12, 12, 1, 1)$ lies on line ℓ_2
84 : $P_{2478} = (13, 12, 1, 1)$ lies on line ℓ_3
85 : $P_{2509} = (12, 13, 1, 1)$ lies on line ℓ_3
86 : $P_{2510} = (13, 13, 1, 1)$ lies on line ℓ_2
87 : $P_{2543} = (14, 14, 1, 1)$ lies on line ℓ_2
88 : $P_{2544} = (15, 14, 1, 1)$ lies on line ℓ_3
89 : $P_{2575} = (14, 15, 1, 1)$ lies on line ℓ_3
90 : $P_{2576} = (15, 15, 1, 1)$ lies on line ℓ_2
91 : $P_{2609} = (16, 16, 1, 1)$ lies on line ℓ_2
92 : $P_{2610} = (17, 16, 1, 1)$ lies on line ℓ_3
93 : $P_{2641} = (16, 17, 1, 1)$ lies on line ℓ_3
94 : $P_{2642} = (17, 17, 1, 1)$ lies on line ℓ_2
95 : $P_{2675} = (18, 18, 1, 1)$ lies on line ℓ_2
96 : $P_{2676} = (19, 18, 1, 1)$ lies on line ℓ_3
97 : $P_{2707} = (18, 19, 1, 1)$ lies on line ℓ_3
98 : $P_{2708} = (19, 19, 1, 1)$ lies on line ℓ_2
99 : $P_{2741} = (20, 20, 1, 1)$ lies on line ℓ_2
100 : $P_{2742} = (21, 20, 1, 1)$ lies on line ℓ_3
101 : $P_{2773} = (20, 21, 1, 1)$ lies on line ℓ_3
102 : $P_{2774} = (21, 21, 1, 1)$ lies on line ℓ_2
103 : $P_{2807} = (22, 22, 1, 1)$ lies on line ℓ_2
104 : $P_{2808} = (23, 22, 1, 1)$ lies on line ℓ_3
105 : $P_{2839} = (22, 23, 1, 1)$ lies on line ℓ_3
106 : $P_{2840} = (23, 23, 1, 1)$ lies on line ℓ_2
107 : $P_{2873} = (24, 24, 1, 1)$ lies on line ℓ_2
108 : $P_{2874} = (25, 24, 1, 1)$ lies on line ℓ_3
109 : $P_{2905} = (24, 25, 1, 1)$ lies on line ℓ_3
110 : $P_{2906} = (25, 25, 1, 1)$ lies on line ℓ_2
111 : $P_{2939} = (26, 26, 1, 1)$ lies on line ℓ_2
112 : $P_{2940} = (27, 26, 1, 1)$ lies on line ℓ_3
113 : $P_{2971} = (26, 27, 1, 1)$ lies on line ℓ_3
114 : $P_{2972} = (27, 27, 1, 1)$ lies on line ℓ_2
115 : $P_{3005} = (28, 28, 1, 1)$ lies on line ℓ_2
116 : $P_{3006} = (29, 28, 1, 1)$ lies on line ℓ_3
117 : $P_{3037} = (28, 29, 1, 1)$ lies on line ℓ_3
118 : $P_{3038} = (29, 29, 1, 1)$ lies on line ℓ_2
119 : $P_{3071} = (30, 30, 1, 1)$ lies on line ℓ_2
120 : $P_{3072} = (31, 30, 1, 1)$ lies on line ℓ_3
121 : $P_{3103} = (30, 31, 1, 1)$ lies on line ℓ_3
122 : $P_{3104} = (31, 31, 1, 1)$ lies on line ℓ_2
123 : $P_{3172} = (3, 2, 2, 1)$ lies on line ℓ_4
124 : $P_{3203} = (2, 3, 2, 1)$ lies on line ℓ_5
125 : $P_{4196} = (3, 2, 3, 1)$ lies on line ℓ_5
126 : $P_{4227} = (2, 3, 3, 1)$ lies on line ℓ_4
127 : $P_{5286} = (5, 4, 4, 1)$ lies on line ℓ_4
128 : $P_{5317} = (4, 5, 4, 1)$ lies on line ℓ_5
129 : $P_{6310} = (5, 4, 5, 1)$ lies on line ℓ_5
130 : $P_{6341} = (4, 5, 5, 1)$ lies on line ℓ_4
131 : $P_{7400} = (7, 6, 6, 1)$ lies on line ℓ_4
132 : $P_{7431} = (6, 7, 6, 1)$ lies on line ℓ_5
133 : $P_{8424} = (7, 6, 7, 1)$ lies on line ℓ_5
134 : $P_{8455} = (6, 7, 7, 1)$ lies on line ℓ_4
135 : $P_{9514} = (9, 8, 8, 1)$ lies on line ℓ_4
136 : $P_{9545} = (8, 9, 8, 1)$ lies on line ℓ_5
137 : $P_{10538} = (9, 8, 9, 1)$ lies on line ℓ_5

138 : $P_{10569} = (8, 9, 9, 1)$ lies on line ℓ_4
139 : $P_{11628} = (11, 10, 10, 1)$ lies on line ℓ_4
140 : $P_{11659} = (10, 11, 10, 1)$ lies on line ℓ_5
141 : $P_{12652} = (11, 10, 11, 1)$ lies on line ℓ_5
142 : $P_{12683} = (10, 11, 11, 1)$ lies on line ℓ_4
143 : $P_{13742} = (13, 12, 12, 1)$ lies on line ℓ_4
144 : $P_{13773} = (12, 13, 12, 1)$ lies on line ℓ_5
145 : $P_{14766} = (13, 12, 13, 1)$ lies on line ℓ_5
146 : $P_{14797} = (12, 13, 13, 1)$ lies on line ℓ_4
147 : $P_{15856} = (15, 14, 14, 1)$ lies on line ℓ_4
148 : $P_{15887} = (14, 15, 14, 1)$ lies on line ℓ_5
149 : $P_{16880} = (15, 14, 15, 1)$ lies on line ℓ_5
150 : $P_{16911} = (14, 15, 15, 1)$ lies on line ℓ_4
151 : $P_{17970} = (17, 16, 16, 1)$ lies on line ℓ_4
152 : $P_{18001} = (16, 17, 16, 1)$ lies on line ℓ_5
153 : $P_{18994} = (17, 16, 17, 1)$ lies on line ℓ_5
154 : $P_{19025} = (16, 17, 17, 1)$ lies on line ℓ_4
155 : $P_{20084} = (19, 18, 18, 1)$ lies on line ℓ_4
156 : $P_{20115} = (18, 19, 18, 1)$ lies on line ℓ_5
157 : $P_{21108} = (19, 18, 19, 1)$ lies on line ℓ_5
158 : $P_{21139} = (18, 19, 19, 1)$ lies on line ℓ_4
159 : $P_{22198} = (21, 20, 20, 1)$ lies on line ℓ_4
160 : $P_{22229} = (20, 21, 20, 1)$ lies on line ℓ_5
161 : $P_{23222} = (21, 20, 21, 1)$ lies on line ℓ_5
162 : $P_{23253} = (20, 21, 21, 1)$ lies on line ℓ_4
163 : $P_{24312} = (23, 22, 22, 1)$ lies on line ℓ_4
164 : $P_{24343} = (22, 23, 22, 1)$ lies on line ℓ_5
165 : $P_{25336} = (23, 22, 23, 1)$ lies on line ℓ_5
166 : $P_{25367} = (22, 23, 23, 1)$ lies on line ℓ_4
167 : $P_{26426} = (25, 24, 24, 1)$ lies on line ℓ_4
168 : $P_{26457} = (24, 25, 24, 1)$ lies on line ℓ_5
169 : $P_{27450} = (25, 24, 25, 1)$ lies on line ℓ_5
170 : $P_{27481} = (24, 25, 25, 1)$ lies on line ℓ_4
171 : $P_{28540} = (27, 26, 26, 1)$ lies on line ℓ_4
172 : $P_{28571} = (26, 27, 26, 1)$ lies on line ℓ_5
173 : $P_{29564} = (27, 26, 27, 1)$ lies on line ℓ_5
174 : $P_{29595} = (26, 27, 27, 1)$ lies on line ℓ_4
175 : $P_{30654} = (29, 28, 28, 1)$ lies on line ℓ_4
176 : $P_{30685} = (28, 29, 28, 1)$ lies on line ℓ_5
177 : $P_{31678} = (29, 28, 29, 1)$ lies on line ℓ_5
178 : $P_{31709} = (28, 29, 29, 1)$ lies on line ℓ_4
179 : $P_{32768} = (31, 30, 30, 1)$ lies on line ℓ_4
180 : $P_{32799} = (30, 31, 30, 1)$ lies on line ℓ_5
181 : $P_{33792} = (31, 30, 31, 1)$ lies on line ℓ_5
182 : $P_{33823} = (30, 31, 31, 1)$ lies on line ℓ_4

The single points on the surface are:

Points on surface but on no line

The surface has 931 points not on any line:
The points on the surface but not on lines are:

0 : $P_{36} = (1, 0, 1, 0)$
1 : $P_{145} = (14, 3, 1, 0)$
2 : $P_{160} = (29, 3, 1, 0)$
3 : $P_{217} = (22, 5, 1, 0)$
4 : $P_{225} = (30, 5, 1, 0)$
5 : $P_{282} = (23, 7, 1, 0)$
6 : $P_{283} = (24, 7, 1, 0)$
7 : $P_{293} = (2, 8, 1, 0)$
8 : $P_{298} = (7, 8, 1, 0)$
9 : $P_{359} = (4, 10, 1, 0)$
10 : $P_{376} = (21, 10, 1, 0)$
11 : $P_{425} = (6, 12, 1, 0)$
12 : $P_{427} = (8, 12, 1, 0)$
13 : $P_{499} = (16, 14, 1, 0)$
14 : $P_{511} = (28, 14, 1, 0)$
15 : $P_{598} = (19, 17, 1, 0)$
16 : $P_{604} = (25, 17, 1, 0)$
17 : $P_{667} = (24, 19, 1, 0)$
18 : $P_{670} = (27, 19, 1, 0)$
19 : $P_{714} = (7, 21, 1, 0)$
20 : $P_{731} = (24, 21, 1, 0)$
21 : $P_{792} = (21, 23, 1, 0)$
22 : $P_{799} = (28, 23, 1, 0)$
23 : $P_{826} = (23, 24, 1, 0)$
24 : $P_{831} = (28, 24, 1, 0)$
25 : $P_{877} = (10, 26, 1, 0)$
26 : $P_{887} = (20, 26, 1, 0)$
27 : $P_{938} = (7, 28, 1, 0)$
28 : $P_{952} = (21, 28, 1, 0)$
29 : $P_{1008} = (13, 30, 1, 0)$
30 : $P_{1018} = (23, 30, 1, 0)$
31 : $P_{1146} = (24, 2, 0, 1)$
32 : $P_{1178} = (24, 3, 0, 1)$
33 : $P_{1193} = (7, 4, 0, 1)$
34 : $P_{1225} = (7, 5, 0, 1)$
35 : $P_{1280} = (30, 6, 0, 1)$
36 : $P_{1312} = (30, 7, 0, 1)$
37 : $P_{1340} = (26, 8, 0, 1)$
38 : $P_{1372} = (26, 9, 0, 1)$
39 : $P_{1381} = (3, 10, 0, 1)$
40 : $P_{1413} = (3, 11, 0, 1)$
41 : $P_{1470} = (28, 12, 0, 1)$

$42: P_{1502} = (28, 13, 0, 1)$
$43: P_{1511} = (5, 14, 0, 1)$
$44: P_{1543} = (5, 15, 0, 1)$
$45: P_{1591} = (21, 16, 0, 1)$
$46: P_{1623} = (21, 17, 0, 1)$
$47: P_{1646} = (12, 18, 0, 1)$
$48: P_{1678} = (12, 19, 0, 1)$
$49: P_{1717} = (19, 20, 0, 1)$
$50: P_{1749} = (19, 21, 0, 1)$
$51: P_{1772} = (10, 22, 0, 1)$
$52: P_{1804} = (10, 23, 0, 1)$
$53: P_{1840} = (14, 24, 0, 1)$
$54: P_{1872} = (14, 25, 0, 1)$
$55: P_{1913} = (23, 26, 0, 1)$
$56: P_{1945} = (23, 27, 0, 1)$
$57: P_{1962} = (8, 28, 0, 1)$
$58: P_{1994} = (8, 29, 0, 1)$
$59: P_{2035} = (17, 30, 0, 1)$
$60: P_{2067} = (17, 31, 0, 1)$
$61: P_{3129} = (24, 0, 2, 1)$
$62: P_{3176} = (7, 2, 2, 1)$
$63: P_{3367} = (6, 8, 2, 1)$
$64: P_{3372} = (11, 8, 2, 1)$
$65: P_{3403} = (10, 9, 2, 1)$
$66: P_{3413} = (20, 9, 2, 1)$
$67: P_{3471} = (14, 11, 2, 1)$
$68: P_{3480} = (23, 11, 2, 1)$
$69: P_{3528} = (7, 13, 2, 1)$
$70: P_{3538} = (17, 13, 2, 1)$
$71: P_{3572} = (19, 14, 2, 1)$
$72: P_{3575} = (22, 14, 2, 1)$
$73: P_{3789} = (12, 21, 2, 1)$
$74: P_{3804} = (27, 21, 2, 1)$
$75: P_{3891} = (18, 24, 2, 1)$
$76: P_{3897} = (24, 24, 2, 1)$
$77: P_{3940} = (3, 26, 2, 1)$
$78: P_{3961} = (24, 26, 2, 1)$
$79: P_{4153} = (24, 0, 3, 1)$
$80: P_{4171} = (10, 1, 3, 1)$
$81: P_{4172} = (11, 1, 3, 1)$
$82: P_{4232} = (7, 3, 3, 1)$
$83: P_{4308} = (19, 5, 3, 1)$
$84: P_{4318} = (29, 5, 3, 1)$
$85: P_{4321} = (0, 6, 3, 1)$
$86: P_{4337} = (16, 6, 3, 1)$
$87: P_{4388} = (3, 8, 3, 1)$
$88: P_{4413} = (28, 8, 3, 1)$
$89: P_{4420} = (3, 9, 3, 1)$
$90: P_{4432} = (15, 9, 3, 1)$
$91: P_{4455} = (6, 10, 3, 1)$
$92: P_{4479} = (30, 10, 3, 1)$
$93: P_{4546} = (1, 13, 3, 1)$
$94: P_{4554} = (9, 13, 3, 1)$
$95: P_{4706} = (1, 18, 3, 1)$
$96: P_{4734} = (29, 18, 3, 1)$
$97: P_{4780} = (11, 20, 3, 1)$
$98: P_{4798} = (29, 20, 3, 1)$
$99: P_{4808} = (7, 21, 3, 1)$
$100: P_{4827} = (26, 21, 3, 1)$
$101: P_{4839} = (6, 22, 3, 1)$
$102: P_{4844} = (11, 22, 3, 1)$
$103: P_{4907} = (10, 24, 3, 1)$
$104: P_{4921} = (24, 24, 3, 1)$
$105: P_{4961} = (0, 26, 3, 1)$
$106: P_{4971} = (10, 26, 3, 1)$
$107: P_{4995} = (2, 27, 3, 1)$
$108: P_{5017} = (24, 27, 3, 1)$
$109: P_{5026} = (1, 28, 3, 1)$
$110: P_{5046} = (21, 28, 3, 1)$
$111: P_{5093} = (4, 30, 3, 1)$
$112: P_{5102} = (13, 30, 3, 1)$
$113: P_{5121} = (0, 31, 3, 1)$
$114: P_{5127} = (6, 31, 3, 1)$
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$120: P_{5386} = (9, 7, 4, 1)$
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$122: P_{5493} = (20, 10, 4, 1)$
$123: P_{5519} = (14, 11, 4, 1)$
$124: P_{5534} = (29, 11, 4, 1)$
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$126: P_{5663} = (30, 15, 4, 1)$
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$128: P_{6038} = (21, 27, 4, 1)$
$129: P_{6051} = (2, 28, 4, 1)$
$130: P_{6075} = (26, 28, 4, 1)$
$131: P_{6121} = (8, 30, 4, 1)$
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$133: P_{6184} = (7, 0, 5, 1)$
$134: P_{6223} = (14, 1, 5, 1)$
$135: P_{6224} = (15, 1, 5, 1)$
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$137: P_{6248} = (7, 2, 5, 1)$
$138: P_{6273} = (0, 3, 5, 1)$
$139: P_{6287} = (14, 3, 5, 1)$
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$143: P_{6466} = (1, 9, 5, 1)$
$144: P_{6487} = (22, 9, 5, 1)$
$145: P_{6502} = (5, 10, 5, 1)$
$146: P_{6520} = (23, 10, 5, 1)$
$147: P_{6534} = (5, 11, 5, 1)$
$148: P_{6560} = (31, 11, 5, 1)$
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155 : $P_{6801} = (16, 19, 5, 1)$
156 : $P_{6812} = (27, 19, 5, 1)$
157 : $P_{6817} = (0, 20, 5, 1)$
158 : $P_{6830} = (13, 20, 5, 1)$
159 : $P_{6914} = (1, 23, 5, 1)$
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164 : $P_{7052} = (11, 27, 5, 1)$
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184 : $P_{7645} = (28, 13, 6, 1)$
185 : $P_{7718} = (5, 16, 6, 1)$
186 : $P_{7732} = (19, 16, 6, 1)$
187 : $P_{7757} = (12, 17, 6, 1)$
188 : $P_{7759} = (14, 17, 6, 1)$
189 : $P_{7846} = (5, 20, 6, 1)$
190 : $P_{7872} = (31, 20, 6, 1)$
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192 : $P_{7964} = (27, 23, 6, 1)$
193 : $P_{7976} = (7, 24, 6, 1)$
194 : $P_{7999} = (30, 24, 6, 1)$
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196 : $P_{8049} = (16, 26, 6, 1)$
197 : $P_{8111} = (14, 28, 6, 1)$
198 : $P_{8118} = (21, 28, 6, 1)$
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203 : $P_{8262} = (5, 1, 7, 1)$
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208 : $P_{8468} = (19, 7, 7, 1)$
209 : $P_{8506} = (25, 8, 7, 1)$
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213 : $P_{8548} = (3, 10, 7, 1)$
214 : $P_{8566} = (21, 10, 7, 1)$
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218 : $P_{8704} = (31, 14, 7, 1)$
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227 : $P_{9059} = (2, 26, 7, 1)$
228 : $P_{9079} = (22, 26, 7, 1)$
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235 : $P_{9310} = (29, 1, 8, 1)$
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237 : $P_{9338} = (25, 2, 8, 1)$
238 : $P_{9425} = (16, 5, 8, 1)$
239 : $P_{9431} = (22, 5, 8, 1)$
240 : $P_{9508} = (3, 8, 8, 1)$
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242 : $P_{9692} = (27, 13, 8, 1)$
243 : $P_{9797} = (4, 17, 8, 1)$
244 : $P_{9804} = (11, 17, 8, 1)$
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247 : $P_{9881} = (24, 19, 8, 1)$
248 : $P_{9888} = (31, 19, 8, 1)$
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253 : $P_{10094} = (13, 26, 8, 1)$
254 : $P_{10107} = (26, 26, 8, 1)$
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257 : $P_{10450} = (17, 5, 9, 1)$

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$262: P_{10622} = (29, 10, 9, 1)$
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$265: P_{10724} = (3, 14, 9, 1)$
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$268: P_{10774} = (21, 15, 9, 1)$
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$275: P_{10932} = (19, 20, 9, 1)$
$276: P_{10941} = (28, 20, 9, 1)$
$277: P_{10968} = (23, 21, 9, 1)$
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$280: P_{11006} = (29, 22, 9, 1)$
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$288: P_{11231} = (30, 29, 9, 1)$
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$291: P_{11352} = (23, 1, 10, 1)$
$292: P_{11396} = (3, 3, 10, 1)$
$293: P_{11420} = (27, 3, 10, 1)$
$294: P_{11431} = (6, 4, 10, 1)$
$295: P_{11454} = (29, 4, 10, 1)$
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$297: P_{11571} = (18, 8, 10, 1)$
$298: P_{11588} = (3, 9, 10, 1)$
$299: P_{11596} = (11, 9, 10, 1)$
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$303: P_{11854} = (13, 17, 10, 1)$
$304: P_{11866} = (25, 17, 10, 1)$
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$306: P_{12163} = (2, 27, 10, 1)$
$307: P_{12203} = (10, 28, 10, 1)$
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$309: P_{12230} = (5, 29, 10, 1)$
$310: P_{12235} = (10, 29, 10, 1)$
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$312: P_{12389} = (4, 2, 11, 1)$
$313: P_{12414} = (29, 2, 11, 1)$
$314: P_{12420} = (3, 3, 11, 1)$
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$326: P_{12797} = (28, 14, 11, 1)$
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$359: P_{13870} = (13, 16, 12, 1)$
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$364: P_{13975} = (22, 19, 12, 1)$
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374 : $P_{14191} = (14, 26, 12, 1)$
375 : $P_{14260} = (19, 28, 12, 1)$
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386 : $P_{14808} = (23, 13, 13, 1)$
387 : $P_{14925} = (12, 17, 13, 1)$
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392 : $P_{15153} = (16, 24, 13, 1)$
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395 : $P_{15347} = (18, 30, 13, 1)$
396 : $P_{15351} = (22, 30, 13, 1)$
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414 : $P_{15927} = (22, 16, 14, 1)$
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420 : $P_{16256} = (31, 26, 14, 1)$
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457 : $P_{17533} = (28, 2, 16, 1)$
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462 : $P_{17943} = (22, 15, 16, 1)$
463 : $P_{17951} = (30, 15, 16, 1)$
464 : $P_{17981} = (28, 16, 16, 1)$
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466 : $P_{18059} = (10, 19, 16, 1)$
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468 : $P_{18134} = (21, 21, 16, 1)$
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470 : $P_{18181} = (4, 23, 16, 1)$
471 : $P_{18440} = (7, 31, 16, 1)$
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473 : $P_{18486} = (21, 0, 17, 1)$

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476 : $P_{18530} = (1, 2, 17, 1)$
477 : $P_{18544} = (15, 2, 17, 1)$
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479 : $P_{18614} = (21, 4, 17, 1)$
480 : $P_{18625} = (0, 5, 17, 1)$
481 : $P_{18655} = (30, 5, 17, 1)$
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483 : $P_{18688} = (31, 6, 17, 1)$
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487 : $P_{18782} = (29, 9, 17, 1)$
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493 : $P_{18937} = (24, 14, 17, 1)$
494 : $P_{18962} = (17, 15, 17, 1)$
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496 : $P_{19037} = (28, 17, 17, 1)$
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901 : $P_{32919} = (22, 3, 31, 1)$
902 : $P_{32969} = (8, 5, 31, 1)$
903 : $P_{32985} = (24, 5, 31, 1)$
904 : $P_{33003} = (10, 6, 31, 1)$
905 : $P_{33015} = (22, 6, 31, 1)$

906 : $P_{33069} = (12, 8, 31, 1)$
907 : $P_{33077} = (20, 8, 31, 1)$
908 : $P_{33113} = (24, 9, 31, 1)$
909 : $P_{33116} = (27, 9, 31, 1)$
910 : $P_{33266} = (17, 14, 31, 1)$
911 : $P_{33279} = (30, 14, 31, 1)$
912 : $P_{33326} = (13, 16, 31, 1)$
913 : $P_{33338} = (25, 16, 31, 1)$
914 : $P_{33362} = (17, 17, 31, 1)$
915 : $P_{33366} = (21, 17, 31, 1)$
916 : $P_{33415} = (6, 19, 31, 1)$
917 : $P_{33433} = (24, 19, 31, 1)$
918 : $P_{33447} = (6, 20, 31, 1)$
919 : $P_{33470} = (29, 20, 31, 1)$
920 : $P_{33520} = (15, 22, 31, 1)$
921 : $P_{33526} = (21, 22, 31, 1)$
922 : $P_{33575} = (6, 24, 31, 1)$
923 : $P_{33590} = (21, 24, 31, 1)$
924 : $P_{33608} = (7, 25, 31, 1)$
925 : $P_{33615} = (14, 25, 31, 1)$
926 : $P_{33636} = (3, 26, 31, 1)$
927 : $P_{33655} = (22, 26, 31, 1)$
928 : $P_{33697} = (0, 28, 31, 1)$
929 : $P_{33708} = (11, 28, 31, 1)$
930 : $P_{33805} = (12, 31, 31, 1)$

Line Intersection Graph

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

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_5
in point	P_0	P_{1090}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_5
in point	P_0	P_{2082}	P_{2083}	P_{2083}

Line 2 intersects

Line	ℓ_1	ℓ_3
in point	P_{2082}	P_5

Line 3 intersects

Line	ℓ_1	ℓ_2	ℓ_4	ℓ_5
in point	P_{2083}	P_5	P_{2114}	P_{2083}

Line 4 intersects

Line	ℓ_3	ℓ_5
in point	P_{2114}	P_{68}

Line 5 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4
in point	P_{1090}	P_{2083}	P_{2083}	P_{68}

The surface has 1121 points:
Too many to print.