Rank-74275 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^2X_2 + X_1^2X_3 + X_0X_3^2 + X_0X_1X_2 = 0$$

(0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is 1141933093

General information

Number of lines	6
Number of points	1121
Number of singular points	1
Number of Eckardt points	0
Number of double points	4
Number of single points	186
Number of points off lines	930
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^6
Type of lines on points	4, 2^4, 1^{186}, 0^{930}

Singular Points

The surface has 1 singular points:

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

The 6 Lines

The lines and their Pluecker coordinates are:

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

$$\ell_1 = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2081} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{2081} = \mathbf{Pl}(0,0,1,0,0,1)_{34912}$$

$$\ell_2 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \mathbf{Pl}(0,0,0,0,0,1)_{34849}$$

$$\ell_3 = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \mathbf{Pl}(0,1,0,0,0,0)_{1}$$

$$\ell_4 = \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{35905} = \begin{bmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{35905} = \mathbf{Pl}(0,1,1,0,0,1)_{34944}$$

$$\ell_5 = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{34882} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{34882} = \mathbf{Pl}(1,1,1,1,0,1)_{38818}$$

Rank of lines: (0, 2081, 1082368, 1083424, 35905, 34882)
Rank of points on Klein quadric: (0, 34912, 34849, 1, 34944, 38818)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 4 Double points:
The double points on the surface are:

$P_5 = (1,1,0,0) = \ell_0 \cap \ell_1$
$P_1 = (0,1,0,0) = \ell_0 \cap \ell_2$
$P_{67} = (0,1,1,0) = \ell_2 \cap \ell_5$
$P_{1091} = (1,1,0,1) = \ell_4 \cap \ell_5$

Single Points

The surface has 186 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_3
2 : $P_4 = (1,1,1,1)$ lies on line ℓ_4
3 : $P_6 = (2,1,0,0)$ lies on line ℓ_0
4 : $P_7 = (3,1,0,0)$ lies on line ℓ_0
5 : $P_8 = (4,1,0,0)$ lies on line ℓ_0
6 : $P_9 = (5,1,0,0)$ lies on line ℓ_0
7 : $P_{10} = (6,1,0,0)$ lies on line ℓ_0
8 : $P_{11} = (7,1,0,0)$ lies on line ℓ_0
9 : $P_{12} = (8,1,0,0)$ lies on line ℓ_0
10 : $P_{13} = (9,1,0,0)$ lies on line ℓ_0
11 : $P_{14} = (10,1,0,0)$ lies on line ℓ_0
12 : $P_{15} = (11,1,0,0)$ lies on line ℓ_0
13 : $P_{16} = (12,1,0,0)$ lies on line ℓ_0
14 : $P_{17} = (13,1,0,0)$ lies on line ℓ_0
15 : $P_{18} = (14,1,0,0)$ lies on line ℓ_0
16 : $P_{19} = (15,1,0,0)$ lies on line ℓ_0
17 : $P_{20} = (16,1,0,0)$ lies on line ℓ_0
18 : $P_{21} = (17,1,0,0)$ lies on line ℓ_0
19 : $P_{22} = (18,1,0,0)$ lies on line ℓ_0
20 : $P_{23} = (19,1,0,0)$ lies on line ℓ_0
21 : $P_{24} = (20,1,0,0)$ lies on line ℓ_0
22 : $P_{25} = (21,1,0,0)$ lies on line ℓ_0
23 : $P_{26} = (22,1,0,0)$ lies on line ℓ_0
24 : $P_{27} = (23,1,0,0)$ lies on line ℓ_0
25 : $P_{28} = (24,1,0,0)$ lies on line ℓ_0
26 : $P_{29} = (25,1,0,0)$ lies on line ℓ_0
27 : $P_{30} = (26,1,0,0)$ lies on line ℓ_0
28 : $P_{31} = (27,1,0,0)$ lies on line ℓ_0
29 : $P_{32} = (28,1,0,0)$ lies on line ℓ_0
30 : $P_{33} = (29,1,0,0)$ lies on line ℓ_0
31 : $P_{34} = (30,1,0,0)$ lies on line ℓ_0
32 : $P_{35} = (31,1,0,0)$ lies on line ℓ_0
33 : $P_{68} = (1,1,1,0)$ lies on line ℓ_1

34 : $P_{99} = (0, 2, 1, 0)$ lies on line ℓ_2
35 : $P_{101} = (2, 2, 1, 0)$ lies on line ℓ_1
36 : $P_{131} = (0, 3, 1, 0)$ lies on line ℓ_2
37 : $P_{134} = (3, 3, 1, 0)$ lies on line ℓ_1
38 : $P_{163} = (0, 4, 1, 0)$ lies on line ℓ_2
39 : $P_{167} = (4, 4, 1, 0)$ lies on line ℓ_1
40 : $P_{195} = (0, 5, 1, 0)$ lies on line ℓ_2
41 : $P_{200} = (5, 5, 1, 0)$ lies on line ℓ_1
42 : $P_{227} = (0, 6, 1, 0)$ lies on line ℓ_2
43 : $P_{233} = (6, 6, 1, 0)$ lies on line ℓ_1
44 : $P_{259} = (0, 7, 1, 0)$ lies on line ℓ_2
45 : $P_{266} = (7, 7, 1, 0)$ lies on line ℓ_1
46 : $P_{291} = (0, 8, 1, 0)$ lies on line ℓ_2
47 : $P_{299} = (8, 8, 1, 0)$ lies on line ℓ_1
48 : $P_{323} = (0, 9, 1, 0)$ lies on line ℓ_2
49 : $P_{332} = (9, 9, 1, 0)$ lies on line ℓ_1
50 : $P_{355} = (0, 10, 1, 0)$ lies on line ℓ_2
51 : $P_{365} = (10, 10, 1, 0)$ lies on line ℓ_1
52 : $P_{387} = (0, 11, 1, 0)$ lies on line ℓ_2
53 : $P_{398} = (11, 11, 1, 0)$ lies on line ℓ_1
54 : $P_{419} = (0, 12, 1, 0)$ lies on line ℓ_2
55 : $P_{431} = (12, 12, 1, 0)$ lies on line ℓ_1
56 : $P_{451} = (0, 13, 1, 0)$ lies on line ℓ_2
57 : $P_{464} = (13, 13, 1, 0)$ lies on line ℓ_1
58 : $P_{483} = (0, 14, 1, 0)$ lies on line ℓ_2
59 : $P_{497} = (14, 14, 1, 0)$ lies on line ℓ_1
60 : $P_{515} = (0, 15, 1, 0)$ lies on line ℓ_2
61 : $P_{530} = (15, 15, 1, 0)$ lies on line ℓ_1
62 : $P_{547} = (0, 16, 1, 0)$ lies on line ℓ_2
63 : $P_{563} = (16, 16, 1, 0)$ lies on line ℓ_1
64 : $P_{579} = (0, 17, 1, 0)$ lies on line ℓ_2
65 : $P_{596} = (17, 17, 1, 0)$ lies on line ℓ_1
66 : $P_{611} = (0, 18, 1, 0)$ lies on line ℓ_2
67 : $P_{629} = (18, 18, 1, 0)$ lies on line ℓ_1
68 : $P_{643} = (0, 19, 1, 0)$ lies on line ℓ_2
69 : $P_{662} = (19, 19, 1, 0)$ lies on line ℓ_1
70 : $P_{675} = (0, 20, 1, 0)$ lies on line ℓ_2
71 : $P_{695} = (20, 20, 1, 0)$ lies on line ℓ_1
72 : $P_{707} = (0, 21, 1, 0)$ lies on line ℓ_2
73 : $P_{728} = (21, 21, 1, 0)$ lies on line ℓ_1
74 : $P_{739} = (0, 22, 1, 0)$ lies on line ℓ_2
75 : $P_{761} = (22, 22, 1, 0)$ lies on line ℓ_1
76 : $P_{771} = (0, 23, 1, 0)$ lies on line ℓ_2
77 : $P_{794} = (23, 23, 1, 0)$ lies on line ℓ_1
78 : $P_{803} = (0, 24, 1, 0)$ lies on line ℓ_2
79 : $P_{827} = (24, 24, 1, 0)$ lies on line ℓ_1
80 : $P_{835} = (0, 25, 1, 0)$ lies on line ℓ_2
81 : $P_{860} = (25, 25, 1, 0)$ lies on line ℓ_1
82 : $P_{867} = (0, 26, 1, 0)$ lies on line ℓ_2
83 : $P_{893} = (26, 26, 1, 0)$ lies on line ℓ_1
84 : $P_{899} = (0, 27, 1, 0)$ lies on line ℓ_2
85 : $P_{926} = (27, 27, 1, 0)$ lies on line ℓ_1
86 : $P_{931} = (0, 28, 1, 0)$ lies on line ℓ_2
87 : $P_{959} = (28, 28, 1, 0)$ lies on line ℓ_1
88 : $P_{963} = (0, 29, 1, 0)$ lies on line ℓ_2
89 : $P_{992} = (29, 29, 1, 0)$ lies on line ℓ_1
90 : $P_{995} = (0, 30, 1, 0)$ lies on line ℓ_2
91 : $P_{1025} = (30, 30, 1, 0)$ lies on line ℓ_1
92 : $P_{1027} = (0, 31, 1, 0)$ lies on line ℓ_2
93 : $P_{1058} = (31, 31, 1, 0)$ lies on line ℓ_1
94 : $P_{2082} = (0, 0, 1, 1)$ lies on line ℓ_3
95 : $P_{2083} = (1, 0, 1, 1)$ lies on line ℓ_5
96 : $P_{3105} = (0, 0, 2, 1)$ lies on line ℓ_3
97 : $P_{3138} = (1, 1, 2, 1)$ lies on line ℓ_4
98 : $P_{3202} = (1, 3, 2, 1)$ lies on line ℓ_5
99 : $P_{4129} = (0, 0, 3, 1)$ lies on line ℓ_3
100 : $P_{4162} = (1, 1, 3, 1)$ lies on line ℓ_4
101 : $P_{4194} = (1, 2, 3, 1)$ lies on line ℓ_5
102 : $P_{5153} = (0, 0, 4, 1)$ lies on line ℓ_3
103 : $P_{5186} = (1, 1, 4, 1)$ lies on line ℓ_4
104 : $P_{5314} = (1, 5, 4, 1)$ lies on line ℓ_5
105 : $P_{6177} = (0, 0, 5, 1)$ lies on line ℓ_3
106 : $P_{6210} = (1, 1, 5, 1)$ lies on line ℓ_4
107 : $P_{6306} = (1, 4, 5, 1)$ lies on line ℓ_5
108 : $P_{7201} = (0, 0, 6, 1)$ lies on line ℓ_3
109 : $P_{7234} = (1, 1, 6, 1)$ lies on line ℓ_4
110 : $P_{7426} = (1, 7, 6, 1)$ lies on line ℓ_5
111 : $P_{8225} = (0, 0, 7, 1)$ lies on line ℓ_3
112 : $P_{8258} = (1, 1, 7, 1)$ lies on line ℓ_4
113 : $P_{8418} = (1, 6, 7, 1)$ lies on line ℓ_5
114 : $P_{9249} = (0, 0, 8, 1)$ lies on line ℓ_3
115 : $P_{9282} = (1, 1, 8, 1)$ lies on line ℓ_4
116 : $P_{9538} = (1, 9, 8, 1)$ lies on line ℓ_5
117 : $P_{10273} = (0, 0, 9, 1)$ lies on line ℓ_3
118 : $P_{10306} = (1, 1, 9, 1)$ lies on line ℓ_4
119 : $P_{10530} = (1, 8, 9, 1)$ lies on line ℓ_5
120 : $P_{11297} = (0, 0, 10, 1)$ lies on line ℓ_3
121 : $P_{11330} = (1, 1, 10, 1)$ lies on line ℓ_4
122 : $P_{11650} = (1, 11, 10, 1)$ lies on line ℓ_5
123 : $P_{12321} = (0, 0, 11, 1)$ lies on line ℓ_3
124 : $P_{12354} = (1, 1, 11, 1)$ lies on line ℓ_4
125 : $P_{12642} = (1, 10, 11, 1)$ lies on line ℓ_5
126 : $P_{13345} = (0, 0, 12, 1)$ lies on line ℓ_3
127 : $P_{13378} = (1, 1, 12, 1)$ lies on line ℓ_4
128 : $P_{13762} = (1, 13, 12, 1)$ lies on line ℓ_5
129 : $P_{14369} = (0, 0, 13, 1)$ lies on line ℓ_3
130 : $P_{14402} = (1, 1, 13, 1)$ lies on line ℓ_4
131 : $P_{14754} = (1, 12, 13, 1)$ lies on line ℓ_5
132 : $P_{15393} = (0, 0, 14, 1)$ lies on line ℓ_3
133 : $P_{15426} = (1, 1, 14, 1)$ lies on line ℓ_4
134 : $P_{15874} = (1, 15, 14, 1)$ lies on line ℓ_5
135 : $P_{16417} = (0, 0, 15, 1)$ lies on line ℓ_3
136 : $P_{16450} = (1, 1, 15, 1)$ lies on line ℓ_4
137 : $P_{16866} = (1, 14, 15, 1)$ lies on line ℓ_5
138 : $P_{17441} = (0, 0, 16, 1)$ lies on line ℓ_3
139 : $P_{17474} = (1, 1, 16, 1)$ lies on line ℓ_4
140 : $P_{17986} = (1, 17, 16, 1)$ lies on line ℓ_5
141 : $P_{18465} = (0, 0, 17, 1)$ lies on line ℓ_3

142 : $P_{18498} = (1, 1, 17, 1)$ lies on line ℓ_4
143 : $P_{18978} = (1, 16, 17, 1)$ lies on line ℓ_5
144 : $P_{19489} = (0, 0, 18, 1)$ lies on line ℓ_3
145 : $P_{19522} = (1, 1, 18, 1)$ lies on line ℓ_4
146 : $P_{20098} = (1, 19, 18, 1)$ lies on line ℓ_5
147 : $P_{20513} = (0, 0, 19, 1)$ lies on line ℓ_3
148 : $P_{20546} = (1, 1, 19, 1)$ lies on line ℓ_4
149 : $P_{21090} = (1, 18, 19, 1)$ lies on line ℓ_5
150 : $P_{21537} = (0, 0, 20, 1)$ lies on line ℓ_3
151 : $P_{21570} = (1, 1, 20, 1)$ lies on line ℓ_4
152 : $P_{22210} = (1, 21, 20, 1)$ lies on line ℓ_5
153 : $P_{22561} = (0, 0, 21, 1)$ lies on line ℓ_3
154 : $P_{22594} = (1, 1, 21, 1)$ lies on line ℓ_4
155 : $P_{23202} = (1, 20, 21, 1)$ lies on line ℓ_5
156 : $P_{23585} = (0, 0, 22, 1)$ lies on line ℓ_3
157 : $P_{23618} = (1, 1, 22, 1)$ lies on line ℓ_4
158 : $P_{24322} = (1, 23, 22, 1)$ lies on line ℓ_5
159 : $P_{24609} = (0, 0, 23, 1)$ lies on line ℓ_3
160 : $P_{24642} = (1, 1, 23, 1)$ lies on line ℓ_4
161 : $P_{25314} = (1, 22, 23, 1)$ lies on line ℓ_5
162 : $P_{25633} = (0, 0, 24, 1)$ lies on line ℓ_3
163 : $P_{25666} = (1, 1, 24, 1)$ lies on line ℓ_4
164 : $P_{26434} = (1, 25, 24, 1)$ lies on line ℓ_5
165 : $P_{26657} = (0, 0, 25, 1)$ lies on line ℓ_3
166 : $P_{26690} = (1, 1, 25, 1)$ lies on line ℓ_4
167 : $P_{27426} = (1, 24, 25, 1)$ lies on line ℓ_5
168 : $P_{27681} = (0, 0, 26, 1)$ lies on line ℓ_3
169 : $P_{27714} = (1, 1, 26, 1)$ lies on line ℓ_4
170 : $P_{28546} = (1, 27, 26, 1)$ lies on line ℓ_5
171 : $P_{28705} = (0, 0, 27, 1)$ lies on line ℓ_3
172 : $P_{28738} = (1, 1, 27, 1)$ lies on line ℓ_4
173 : $P_{29538} = (1, 26, 27, 1)$ lies on line ℓ_5
174 : $P_{29729} = (0, 0, 28, 1)$ lies on line ℓ_3
175 : $P_{29762} = (1, 1, 28, 1)$ lies on line ℓ_4
176 : $P_{30658} = (1, 29, 28, 1)$ lies on line ℓ_5
177 : $P_{30753} = (0, 0, 29, 1)$ lies on line ℓ_3
178 : $P_{30786} = (1, 1, 29, 1)$ lies on line ℓ_4
179 : $P_{31650} = (1, 28, 29, 1)$ lies on line ℓ_5
180 : $P_{31777} = (0, 0, 30, 1)$ lies on line ℓ_3
181 : $P_{31810} = (1, 1, 30, 1)$ lies on line ℓ_4
182 : $P_{32770} = (1, 31, 30, 1)$ lies on line ℓ_5
183 : $P_{32801} = (0, 0, 31, 1)$ lies on line ℓ_3
184 : $P_{32834} = (1, 1, 31, 1)$ lies on line ℓ_4
185 : $P_{33762} = (1, 30, 31, 1)$ lies on line ℓ_5

The single points on the surface are:

Points on surface but on no line

The surface has 930 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 : $P_{1324} = (10, 8, 0, 1)$
7 : $P_{1357} = (11, 9, 0, 1)$
8 : $P_{1392} = (14, 10, 0, 1)$
9 : $P_{1425} = (15, 11, 0, 1)$
10 : $P_{1468} = (26, 12, 0, 1)$
11 : $P_{1501} = (27, 13, 0, 1)$
12 : $P_{1536} = (30, 14, 0, 1)$
13 : $P_{1569} = (31, 15, 0, 1)$
14 : $P_{1583} = (13, 16, 0, 1)$
15 : $P_{1614} = (12, 17, 0, 1)$
16 : $P_{1643} = (9, 18, 0, 1)$
17 : $P_{1674} = (8, 19, 0, 1)$
18 : $P_{1727} = (29, 20, 0, 1)$
19 : $P_{1758} = (28, 21, 0, 1)$
20 : $P_{1787} = (25, 22, 0, 1)$
21 : $P_{1818} = (24, 23, 0, 1)$
22 : $P_{1833} = (7, 24, 0, 1)$
23 : $P_{1864} = (6, 25, 0, 1)$
24 : $P_{1893} = (3, 26, 0, 1)$
25 : $P_{1924} = (2, 27, 0, 1)$
26 : $P_{1977} = (23, 28, 0, 1)$
27 : $P_{2008} = (22, 29, 0, 1)$
28 : $P_{2037} = (19, 30, 0, 1)$
29 : $P_{2068} = (18, 31, 0, 1)$
30 : $P_{2165} = (20, 2, 1, 1)$
31 : $P_{2168} = (23, 2, 1, 1)$
32 : $P_{2233} = (24, 4, 1, 1)$
33 : $P_{2238} = (29, 4, 1, 1)$
34 : $P_{2290} = (17, 6, 1, 1)$
35 : $P_{2295} = (22, 6, 1, 1)$
36 : $P_{2331} = (26, 7, 1, 1)$
37 : $P_{2333} = (28, 7, 1, 1)$
38 : $P_{2518} = (21, 13, 1, 1)$
39 : $P_{2522} = (25, 13, 1, 1)$
40 : $P_{2600} = (7, 16, 1, 1)$
41 : $P_{2615} = (22, 16, 1, 1)$

$42: P_{2733} = (12, 20, 1, 1)$
$43: P_{2746} = (25, 20, 1, 1)$
$44: P_{2756} = (3, 21, 1, 1)$
$45: P_{2776} = (23, 21, 1, 1)$
$46: P_{2788} = (3, 22, 1, 1)$
$47: P_{2805} = (20, 22, 1, 1)$
$48: P_{2824} = (7, 23, 1, 1)$
$49: P_{2834} = (17, 23, 1, 1)$
$50: P_{2861} = (12, 24, 1, 1)$
$51: P_{2870} = (21, 24, 1, 1)$
$52: P_{2886} = (5, 25, 1, 1)$
$53: P_{2910} = (29, 25, 1, 1)$
$54: P_{2951} = (6, 27, 1, 1)$
$55: P_{2973} = (28, 27, 1, 1)$
$56: P_{2982} = (5, 28, 1, 1)$
$57: P_{3001} = (24, 28, 1, 1)$
$58: P_{3015} = (6, 29, 1, 1)$
$59: P_{3035} = (26, 29, 1, 1)$
$60: P_{3123} = (18, 0, 2, 1)$
$61: P_{3155} = (18, 1, 2, 1)$
$62: P_{3217} = (16, 3, 2, 1)$
$63: P_{3276} = (11, 5, 2, 1)$
$64: P_{3293} = (28, 5, 2, 1)$
$65: P_{3301} = (4, 6, 2, 1)$
$66: P_{3313} = (16, 6, 2, 1)$
$67: P_{3339} = (10, 7, 2, 1)$
$68: P_{3360} = (31, 7, 2, 1)$
$69: P_{3395} = (2, 9, 2, 1)$
$70: P_{3418} = (25, 9, 2, 1)$
$71: P_{3523} = (2, 13, 2, 1)$
$72: P_{3550} = (29, 13, 2, 1)$
$73: P_{3557} = (4, 14, 2, 1)$
$74: P_{3577} = (24, 14, 2, 1)$
$75: P_{3670} = (21, 17, 2, 1)$
$76: P_{3671} = (22, 17, 2, 1)$
$77: P_{3710} = (29, 18, 2, 1)$
$78: P_{3723} = (10, 19, 2, 1)$
$79: P_{3724} = (11, 19, 2, 1)$
$80: P_{3895} = (22, 24, 2, 1)$
$81: P_{3901} = (28, 24, 2, 1)$
$82: P_{3986} = (17, 27, 2, 1)$
$83: P_{3993} = (24, 27, 2, 1)$
$84: P_{4018} = (17, 28, 2, 1)$
$85: P_{4032} = (31, 28, 2, 1)$
$86: P_{4086} = (21, 30, 2, 1)$
$87: P_{4090} = (25, 30, 2, 1)$
$88: P_{4157} = (28, 0, 3, 1)$
$89: P_{4189} = (28, 1, 3, 1)$
$90: P_{4224} = (31, 2, 3, 1)$
$91: P_{4229} = (4, 3, 3, 1)$
$92: P_{4252} = (27, 3, 3, 1)$
$93: P_{4299} = (10, 5, 3, 1)$
$94: P_{4308} = (19, 5, 3, 1)$
$95: P_{4326} = (5, 6, 3, 1)$
$96: P_{4352} = (31, 6, 3, 1)$
$97: P_{4422} = (5, 9, 3, 1)$
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906 : $P_{33060} = (3, 8, 31, 1)$
907 : $P_{33073} = (16, 8, 31, 1)$
908 : $P_{33097} = (8, 9, 31, 1)$
909 : $P_{33115} = (26, 9, 31, 1)$
910 : $P_{33129} = (8, 10, 31, 1)$
911 : $P_{33146} = (25, 10, 31, 1)$
912 : $P_{33188} = (3, 12, 31, 1)$
913 : $P_{33205} = (20, 12, 31, 1)$
914 : $P_{33221} = (4, 13, 31, 1)$
915 : $P_{33235} = (18, 13, 31, 1)$
916 : $P_{33254} = (5, 14, 31, 1)$
917 : $P_{33265} = (16, 14, 31, 1)$
918 : $P_{33331} = (18, 16, 31, 1)$
919 : $P_{33338} = (25, 16, 31, 1)$
920 : $P_{33460} = (19, 20, 31, 1)$
921 : $P_{33469} = (28, 20, 31, 1)$
922 : $P_{33524} = (19, 22, 31, 1)$
923 : $P_{33535} = (30, 22, 31, 1)$
924 : $P_{33559} = (22, 23, 31, 1)$
925 : $P_{33563} = (26, 23, 31, 1)$
926 : $P_{33621} = (20, 25, 31, 1)$
927 : $P_{33623} = (22, 25, 31, 1)$
928 : $P_{33695} = (30, 27, 31, 1)$
929 : $P_{33765} = (4, 30, 31, 1)$

Line Intersection Graph

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

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_2
in point	P_5	P_1

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4
in point	P_5	P_2	P_2	P_2

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5
in point	P_1	P_2	P_2	P_2	P_{67}

Line 3 intersects

Line	ℓ_1	ℓ_2	ℓ_4
in point	P_2	P_2	P_2

Line 4 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_5
in point	P_2	P_2	P_2	P_{1091}

Line 5 intersects

Line	ℓ_2	ℓ_4
in point	P_{67}	P_{1091}

The surface has 1121 points:
Too many to print.