Rank-264 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_2^3 + X_3^3 + X_0^2X_1 + X_0^2X_2 + X_0^2X_3 + X_0X_1^2 = 0$$

(0, 0, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)
The point rank of the equation over GF(32) is -2078210002

General information

Number of lines	5
Number of points	1121
Number of singular points	0
Number of Eckardt points	2
Number of double points	0
Number of single points	159
Number of points off lines	960
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^5
Type of lines on points	3^2, 1^{159}, 0^{960}

Singular Points

The surface has 0 singular points:

The 5 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1025} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1025} = \mathbf{Pl}(0,0,1,0,1,0)_{1152}$$

$$\ell_1 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \mathbf{Pl}(0,0,0,1,0,1)_{36865}$$

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

$$\ell_3 = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{1090} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{1090} = \mathbf{Pl}(1,1,1,0,1,1)_{68640}$$

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

Rank of lines: (1025, 1082369, 2082, 1090, 33857)
Rank of points on Klein quadric: (1152, 36865, 70562, 68640, 5058)

Eckardt Points

The surface has 2 Eckardt points:
$0 : P_{2082} = \mathbf{P}(0,0,1,1) = \mathbf{P}(0,0,1,1)$,
$1 : P_{2114} = \mathbf{P}(0,1,1,1) = \mathbf{P}(0,1,1,1)$.

Double Points

The surface has 0 Double points:
The double points on the surface are:

Single Points

The surface has 159 single points:
The single points on the surface are:

$0 : P_0 = (1,0,0,0)$ lies on line ℓ_0
$1 : P_1 = (0,1,0,0)$ lies on line ℓ_1
$2 : P_4 = (1,1,1,1)$ lies on line ℓ_2
$3 : P_5 = (1,1,0,0)$ lies on line ℓ_2
$4 : P_{36} = (1,0,1,0)$ lies on line ℓ_3
$5 : P_{68} = (1,1,1,0)$ lies on line ℓ_4
$6 : P_{1059} = (1,0,0,1)$ lies on line ℓ_4
$7 : P_{1091} = (1,1,0,1)$ lies on line ℓ_3
$8 : P_{2083} = (1,0,1,1)$ lies on line ℓ_0
$9 : P_{2084} = (2,0,1,1)$ lies on line ℓ_0
$10 : P_{2085} = (3,0,1,1)$ lies on line ℓ_0
$11 : P_{2086} = (4,0,1,1)$ lies on line ℓ_0
$12 : P_{2087} = (5,0,1,1)$ lies on line ℓ_0
$13 : P_{2088} = (6,0,1,1)$ lies on line ℓ_0
$14 : P_{2089} = (7,0,1,1)$ lies on line ℓ_0
$15 : P_{2090} = (8,0,1,1)$ lies on line ℓ_0
$16 : P_{2091} = (9,0,1,1)$ lies on line ℓ_0
$17 : P_{2092} = (10,0,1,1)$ lies on line ℓ_0
$18 : P_{2093} = (11,0,1,1)$ lies on line ℓ_0
$19 : P_{2094} = (12,0,1,1)$ lies on line ℓ_0
$20 : P_{2095} = (13,0,1,1)$ lies on line ℓ_0
$21 : P_{2096} = (14,0,1,1)$ lies on line ℓ_0
$22 : P_{2097} = (15,0,1,1)$ lies on line ℓ_0
$23 : P_{2098} = (16,0,1,1)$ lies on line ℓ_0
$24 : P_{2099} = (17,0,1,1)$ lies on line ℓ_0
$25 : P_{2100} = (18,0,1,1)$ lies on line ℓ_0
$26 : P_{2101} = (19,0,1,1)$ lies on line ℓ_0
$27 : P_{2102} = (20,0,1,1)$ lies on line ℓ_0
$28 : P_{2103} = (21,0,1,1)$ lies on line ℓ_0
$29 : P_{2104} = (22,0,1,1)$ lies on line ℓ_0
$30 : P_{2105} = (23,0,1,1)$ lies on line ℓ_0
$31 : P_{2106} = (24,0,1,1)$ lies on line ℓ_0
$32 : P_{2107} = (25,0,1,1)$ lies on line ℓ_0
$33 : P_{2108} = (26,0,1,1)$ lies on line ℓ_0
$34 : P_{2109} = (27,0,1,1)$ lies on line ℓ_0
$35 : P_{2110} = (28,0,1,1)$ lies on line ℓ_0
$36 : P_{2111} = (29,0,1,1)$ lies on line ℓ_0
$37 : P_{2112} = (30,0,1,1)$ lies on line ℓ_0
$38 : P_{2113} = (31,0,1,1)$ lies on line ℓ_0
$39 : P_{2145} = (0,2,1,1)$ lies on line ℓ_1
$40 : P_{2147} = (2,2,1,1)$ lies on line ℓ_2
$41 : P_{2177} = (0,3,1,1)$ lies on line ℓ_1
$42 : P_{2180} = (3,3,1,1)$ lies on line ℓ_2
$43 : P_{2209} = (0,4,1,1)$ lies on line ℓ_1
$44 : P_{2213} = (4,4,1,1)$ lies on line ℓ_2
$45 : P_{2241} = (0,5,1,1)$ lies on line ℓ_1

46 : $P_{2246} = (5, 5, 1, 1)$ lies on line ℓ_2
47 : $P_{2273} = (0, 6, 1, 1)$ lies on line ℓ_1
48 : $P_{2279} = (6, 6, 1, 1)$ lies on line ℓ_2
49 : $P_{2305} = (0, 7, 1, 1)$ lies on line ℓ_1
50 : $P_{2312} = (7, 7, 1, 1)$ lies on line ℓ_2
51 : $P_{2337} = (0, 8, 1, 1)$ lies on line ℓ_1
52 : $P_{2345} = (8, 8, 1, 1)$ lies on line ℓ_2
53 : $P_{2369} = (0, 9, 1, 1)$ lies on line ℓ_1
54 : $P_{2378} = (9, 9, 1, 1)$ lies on line ℓ_2
55 : $P_{2401} = (0, 10, 1, 1)$ lies on line ℓ_1
56 : $P_{2411} = (10, 10, 1, 1)$ lies on line ℓ_2
57 : $P_{2433} = (0, 11, 1, 1)$ lies on line ℓ_1
58 : $P_{2444} = (11, 11, 1, 1)$ lies on line ℓ_2
59 : $P_{2465} = (0, 12, 1, 1)$ lies on line ℓ_1
60 : $P_{2477} = (12, 12, 1, 1)$ lies on line ℓ_2
61 : $P_{2497} = (0, 13, 1, 1)$ lies on line ℓ_1
62 : $P_{2510} = (13, 13, 1, 1)$ lies on line ℓ_2
63 : $P_{2529} = (0, 14, 1, 1)$ lies on line ℓ_1
64 : $P_{2543} = (14, 14, 1, 1)$ lies on line ℓ_2
65 : $P_{2561} = (0, 15, 1, 1)$ lies on line ℓ_1
66 : $P_{2576} = (15, 15, 1, 1)$ lies on line ℓ_2
67 : $P_{2593} = (0, 16, 1, 1)$ lies on line ℓ_1
68 : $P_{2609} = (16, 16, 1, 1)$ lies on line ℓ_2
69 : $P_{2625} = (0, 17, 1, 1)$ lies on line ℓ_1
70 : $P_{2642} = (17, 17, 1, 1)$ lies on line ℓ_2
71 : $P_{2657} = (0, 18, 1, 1)$ lies on line ℓ_1
72 : $P_{2675} = (18, 18, 1, 1)$ lies on line ℓ_2
73 : $P_{2689} = (0, 19, 1, 1)$ lies on line ℓ_1
74 : $P_{2708} = (19, 19, 1, 1)$ lies on line ℓ_2
75 : $P_{2721} = (0, 20, 1, 1)$ lies on line ℓ_1
76 : $P_{2741} = (20, 20, 1, 1)$ lies on line ℓ_2
77 : $P_{2753} = (0, 21, 1, 1)$ lies on line ℓ_1
78 : $P_{2774} = (21, 21, 1, 1)$ lies on line ℓ_2
79 : $P_{2785} = (0, 22, 1, 1)$ lies on line ℓ_1
80 : $P_{2807} = (22, 22, 1, 1)$ lies on line ℓ_2
81 : $P_{2817} = (0, 23, 1, 1)$ lies on line ℓ_1
82 : $P_{2840} = (23, 23, 1, 1)$ lies on line ℓ_2
83 : $P_{2849} = (0, 24, 1, 1)$ lies on line ℓ_1
84 : $P_{2873} = (24, 24, 1, 1)$ lies on line ℓ_2
85 : $P_{2881} = (0, 25, 1, 1)$ lies on line ℓ_1
86 : $P_{2906} = (25, 25, 1, 1)$ lies on line ℓ_2
87 : $P_{2913} = (0, 26, 1, 1)$ lies on line ℓ_1
88 : $P_{2939} = (26, 26, 1, 1)$ lies on line ℓ_2
89 : $P_{2945} = (0, 27, 1, 1)$ lies on line ℓ_1
90 : $P_{2972} = (27, 27, 1, 1)$ lies on line ℓ_2
91 : $P_{2977} = (0, 28, 1, 1)$ lies on line ℓ_1
92 : $P_{3005} = (28, 28, 1, 1)$ lies on line ℓ_2
93 : $P_{3009} = (0, 29, 1, 1)$ lies on line ℓ_1
94 : $P_{3038} = (29, 29, 1, 1)$ lies on line ℓ_2
95 : $P_{3041} = (0, 30, 1, 1)$ lies on line ℓ_1
96 : $P_{3071} = (30, 30, 1, 1)$ lies on line ℓ_2
97 : $P_{3073} = (0, 31, 1, 1)$ lies on line ℓ_1
98 : $P_{3104} = (31, 31, 1, 1)$ lies on line ℓ_2
99 : $P_{3140} = (3, 1, 2, 1)$ lies on line ℓ_3
100 : $P_{3172} = (3, 2, 2, 1)$ lies on line ℓ_4
101 : $P_{4163} = (2, 1, 3, 1)$ lies on line ℓ_3
102 : $P_{4227} = (2, 3, 3, 1)$ lies on line ℓ_4
103 : $P_{5190} = (5, 1, 4, 1)$ lies on line ℓ_3
104 : $P_{5286} = (5, 4, 4, 1)$ lies on line ℓ_4
105 : $P_{6213} = (4, 1, 5, 1)$ lies on line ℓ_3
106 : $P_{6341} = (4, 5, 5, 1)$ lies on line ℓ_4
107 : $P_{7240} = (7, 1, 6, 1)$ lies on line ℓ_3
108 : $P_{7400} = (7, 6, 6, 1)$ lies on line ℓ_4
109 : $P_{8263} = (6, 1, 7, 1)$ lies on line ℓ_3
110 : $P_{8455} = (6, 7, 7, 1)$ lies on line ℓ_4
111 : $P_{9290} = (9, 1, 8, 1)$ lies on line ℓ_3
112 : $P_{9514} = (9, 8, 8, 1)$ lies on line ℓ_4
113 : $P_{10313} = (8, 1, 9, 1)$ lies on line ℓ_3
114 : $P_{10569} = (8, 9, 9, 1)$ lies on line ℓ_4
115 : $P_{11340} = (11, 1, 10, 1)$ lies on line ℓ_3
116 : $P_{11628} = (11, 10, 10, 1)$ lies on line ℓ_4
117 : $P_{12363} = (10, 1, 11, 1)$ lies on line ℓ_3
118 : $P_{12683} = (10, 11, 11, 1)$ lies on line ℓ_4
119 : $P_{13390} = (13, 1, 12, 1)$ lies on line ℓ_3
120 : $P_{13742} = (13, 12, 12, 1)$ lies on line ℓ_4
121 : $P_{14413} = (12, 1, 13, 1)$ lies on line ℓ_3
122 : $P_{14797} = (12, 13, 13, 1)$ lies on line ℓ_4
123 : $P_{15440} = (15, 1, 14, 1)$ lies on line ℓ_3
124 : $P_{15856} = (15, 14, 14, 1)$ lies on line ℓ_4
125 : $P_{16463} = (14, 1, 15, 1)$ lies on line ℓ_3
126 : $P_{16911} = (14, 15, 15, 1)$ lies on line ℓ_4
127 : $P_{17490} = (17, 1, 16, 1)$ lies on line ℓ_3
128 : $P_{17970} = (17, 16, 16, 1)$ lies on line ℓ_4
129 : $P_{18513} = (16, 1, 17, 1)$ lies on line ℓ_3
130 : $P_{19025} = (16, 17, 17, 1)$ lies on line ℓ_4
131 : $P_{19540} = (19, 1, 18, 1)$ lies on line ℓ_3
132 : $P_{20084} = (19, 18, 18, 1)$ lies on line ℓ_4
133 : $P_{20563} = (18, 1, 19, 1)$ lies on line ℓ_3
134 : $P_{21139} = (18, 19, 19, 1)$ lies on line ℓ_4
135 : $P_{21590} = (21, 1, 20, 1)$ lies on line ℓ_3
136 : $P_{22198} = (21, 20, 20, 1)$ lies on line ℓ_4
137 : $P_{22613} = (20, 1, 21, 1)$ lies on line ℓ_3
138 : $P_{23253} = (20, 21, 21, 1)$ lies on line ℓ_4
139 : $P_{23640} = (23, 1, 22, 1)$ lies on line ℓ_3
140 : $P_{24312} = (23, 22, 22, 1)$ lies on line ℓ_4
141 : $P_{24663} = (22, 1, 23, 1)$ lies on line ℓ_3
142 : $P_{25367} = (22, 23, 23, 1)$ lies on line ℓ_4
143 : $P_{25690} = (25, 1, 24, 1)$ lies on line ℓ_3
144 : $P_{26426} = (25, 24, 24, 1)$ lies on line ℓ_4
145 : $P_{26713} = (24, 1, 25, 1)$ lies on line ℓ_3
146 : $P_{27481} = (24, 25, 25, 1)$ lies on line ℓ_4
147 : $P_{27740} = (27, 1, 26, 1)$ lies on line ℓ_3
148 : $P_{28540} = (27, 26, 26, 1)$ lies on line ℓ_4
149 : $P_{28763} = (26, 1, 27, 1)$ lies on line ℓ_3
150 : $P_{29595} = (26, 27, 27, 1)$ lies on line ℓ_4
151 : $P_{29790} = (29, 1, 28, 1)$ lies on line ℓ_3
152 : $P_{30654} = (29, 28, 28, 1)$ lies on line ℓ_4
153 : $P_{30813} = (28, 1, 29, 1)$ lies on line ℓ_3

154 : $P_{31709} = (28, 29, 29, 1)$ lies on line ℓ_4
155 : $P_{31840} = (31, 1, 30, 1)$ lies on line ℓ_3
156 : $P_{32768} = (31, 30, 30, 1)$ lies on line ℓ_4
157 : $P_{32863} = (30, 1, 31, 1)$ lies on line ℓ_3
158 : $P_{33823} = (30, 31, 31, 1)$ lies on line ℓ_4

The single points on the surface are:

Points on surface but on no line

The surface has 960 points not on any line:
The points on the surface but not on lines are:

0 : $P_{105} = (6, 2, 1, 0)$
1 : $P_{124} = (25, 2, 1, 0)$
2 : $P_{169} = (6, 4, 1, 0)$
3 : $P_{183} = (20, 4, 1, 0)$
4 : $P_{243} = (16, 6, 1, 0)$
5 : $P_{254} = (27, 6, 1, 0)$
6 : $P_{473} = (22, 13, 1, 0)$
7 : $P_{480} = (29, 13, 1, 0)$
8 : $P_{567} = (20, 16, 1, 0)$
9 : $P_{576} = (29, 16, 1, 0)$
10 : $P_{677} = (2, 20, 1, 0)$
11 : $P_{688} = (13, 20, 1, 0)$
12 : $P_{741} = (2, 22, 1, 0)$
13 : $P_{755} = (16, 22, 1, 0)$
14 : $P_{839} = (4, 25, 1, 0)$
15 : $P_{848} = (13, 25, 1, 0)$
16 : $P_{921} = (22, 27, 1, 0)$
17 : $P_{924} = (25, 27, 1, 0)$
18 : $P_{967} = (4, 29, 1, 0)$
19 : $P_{990} = (27, 29, 1, 0)$
20 : $P_{1128} = (6, 2, 0, 1)$
21 : $P_{1147} = (25, 2, 0, 1)$
22 : $P_{1192} = (6, 4, 0, 1)$
23 : $P_{1206} = (20, 4, 0, 1)$
24 : $P_{1266} = (16, 6, 0, 1)$
25 : $P_{1277} = (27, 6, 0, 1)$
26 : $P_{1496} = (22, 13, 0, 1)$
27 : $P_{1503} = (29, 13, 0, 1)$
28 : $P_{1590} = (20, 16, 0, 1)$
29 : $P_{1599} = (29, 16, 0, 1)$
30 : $P_{1700} = (2, 20, 0, 1)$
31 : $P_{1711} = (13, 20, 0, 1)$
32 : $P_{1764} = (2, 22, 0, 1)$
33 : $P_{1778} = (16, 22, 0, 1)$
34 : $P_{1862} = (4, 25, 0, 1)$
35 : $P_{1871} = (13, 25, 0, 1)$
36 : $P_{1944} = (22, 27, 0, 1)$
37 : $P_{1947} = (25, 27, 0, 1)$
38 : $P_{1990} = (4, 29, 0, 1)$
39 : $P_{2013} = (27, 29, 0, 1)$
40 : $P_{3129} = (24, 0, 2, 1)$
41 : $P_{3154} = (17, 1, 2, 1)$
42 : $P_{3176} = (7, 2, 2, 1)$
43 : $P_{3231} = (30, 3, 2, 1)$
44 : $P_{3244} = (11, 4, 2, 1)$
45 : $P_{3254} = (21, 4, 2, 1)$
46 : $P_{3272} = (7, 5, 2, 1)$
47 : $P_{3283} = (18, 5, 2, 1)$
48 : $P_{3596} = (11, 15, 2, 1)$
49 : $P_{3613} = (28, 15, 2, 1)$
50 : $P_{3621} = (4, 16, 2, 1)$
51 : $P_{3634} = (17, 16, 2, 1)$
52 : $P_{3662} = (13, 17, 2, 1)$
53 : $P_{3670} = (21, 17, 2, 1)$
54 : $P_{3727} = (14, 19, 2, 1)$
55 : $P_{3741} = (28, 19, 2, 1)$
56 : $P_{3747} = (2, 20, 2, 1)$
57 : $P_{3749} = (4, 20, 2, 1)$
58 : $P_{3811} = (2, 22, 2, 1)$
59 : $P_{3819} = (10, 22, 2, 1)$
60 : $P_{3856} = (15, 23, 2, 1)$
61 : $P_{3859} = (18, 23, 2, 1)$
62 : $P_{3888} = (15, 24, 2, 1)$
63 : $P_{3897} = (24, 24, 2, 1)$
64 : $P_{4011} = (10, 28, 2, 1)$
65 : $P_{4014} = (13, 28, 2, 1)$
66 : $P_{4047} = (14, 29, 2, 1)$
67 : $P_{4063} = (30, 29, 2, 1)$
68 : $P_{4153} = (24, 0, 3, 1)$
69 : $P_{4191} = (30, 1, 3, 1)$
70 : $P_{4210} = (17, 2, 3, 1)$
71 : $P_{4232} = (7, 3, 3, 1)$
72 : $P_{4264} = (7, 4, 3, 1)$
73 : $P_{4285} = (28, 4, 3, 1)$
74 : $P_{4362} = (9, 7, 3, 1)$
75 : $P_{4379} = (26, 7, 3, 1)$
76 : $P_{4435} = (18, 9, 3, 1)$
77 : $P_{4436} = (19, 9, 3, 1)$
78 : $P_{4586} = (9, 14, 3, 1)$
79 : $P_{4602} = (25, 14, 3, 1)$
80 : $P_{4752} = (15, 19, 3, 1)$
81 : $P_{4754} = (17, 19, 3, 1)$

$82: P_{4876} = (11, 23, 3, 1)$
$83: P_{4890} = (25, 23, 3, 1)$
$84: P_{4921} = (24, 24, 3, 1)$
$85: P_{4925} = (28, 24, 3, 1)$
$86: P_{4966} = (5, 26, 3, 1)$
$87: P_{4980} = (19, 26, 3, 1)$
$88: P_{4999} = (6, 27, 3, 1)$
$89: P_{5011} = (18, 27, 3, 1)$
$90: P_{5036} = (11, 28, 3, 1)$
$91: P_{5040} = (15, 28, 3, 1)$
$92: P_{5063} = (6, 29, 3, 1)$
$93: P_{5083} = (26, 29, 3, 1)$
$94: P_{5126} = (5, 31, 3, 1)$
$95: P_{5151} = (30, 31, 3, 1)$
$96: P_{5160} = (7, 0, 4, 1)$
$97: P_{5197} = (12, 1, 4, 1)$
$98: P_{5302} = (21, 4, 4, 1)$
$99: P_{5332} = (19, 5, 4, 1)$
$100: P_{5384} = (7, 7, 4, 1)$
$101: P_{5408} = (31, 7, 4, 1)$
$102: P_{5432} = (23, 8, 4, 1)$
$103: P_{5439} = (30, 8, 4, 1)$
$104: P_{5564} = (27, 12, 4, 1)$
$105: P_{5565} = (28, 12, 4, 1)$
$106: P_{5581} = (12, 13, 4, 1)$
$107: P_{5585} = (16, 13, 4, 1)$
$108: P_{5680} = (15, 16, 4, 1)$
$109: P_{5693} = (28, 16, 4, 1)$
$110: P_{5706} = (9, 17, 4, 1)$
$111: P_{5718} = (21, 17, 4, 1)$
$112: P_{5876} = (19, 22, 4, 1)$
$113: P_{5887} = (30, 22, 4, 1)$
$114: P_{5903} = (14, 23, 4, 1)$
$115: P_{5916} = (27, 23, 4, 1)$
$116: P_{5930} = (9, 24, 4, 1)$
$117: P_{5952} = (31, 24, 4, 1)$
$118: P_{5957} = (4, 25, 4, 1)$
$119: P_{5967} = (14, 25, 4, 1)$
$120: P_{6085} = (4, 29, 4, 1)$
$121: P_{6097} = (16, 29, 4, 1)$
$122: P_{6160} = (15, 31, 4, 1)$
$123: P_{6168} = (23, 31, 4, 1)$
$124: P_{6184} = (7, 0, 5, 1)$
$125: P_{6228} = (19, 1, 5, 1)$
$126: P_{6250} = (9, 2, 5, 1)$
$127: P_{6261} = (20, 2, 5, 1)$
$128: P_{6281} = (8, 3, 5, 1)$
$129: P_{6290} = (17, 3, 5, 1)$
$130: P_{6317} = (12, 4, 5, 1)$
$131: P_{6358} = (21, 5, 5, 1)$
$132: P_{6408} = (7, 7, 5, 1)$
$133: P_{6424} = (23, 7, 5, 1)$
$134: P_{6445} = (12, 8, 5, 1)$
$135: P_{6464} = (31, 8, 5, 1)$
$136: P_{6537} = (8, 11, 5, 1)$
$137: P_{6538} = (9, 11, 5, 1)$
$138: P_{6710} = (21, 16, 5, 1)$
$139: P_{6712} = (23, 16, 5, 1)$
$140: P_{6770} = (17, 18, 5, 1)$
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948 : $P_{33352} = (7, 17, 31, 1)$
949 : $P_{33362} = (17, 17, 31, 1)$
950 : $P_{33421} = (12, 19, 31, 1)$
951 : $P_{33436} = (27, 19, 31, 1)$
952 : $P_{33484} = (11, 21, 31, 1)$
953 : $P_{33497} = (24, 21, 31, 1)$
954 : $P_{33512} = (7, 22, 31, 1)$
955 : $P_{33523} = (18, 22, 31, 1)$
956 : $P_{33688} = (23, 27, 31, 1)$
957 : $P_{33693} = (28, 27, 31, 1)$
958 : $P_{33772} = (11, 30, 31, 1)$
959 : $P_{33805} = (12, 31, 31, 1)$

Line Intersection Graph

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

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_2
in point	P_{2082}	P_{2082}

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4
in point	P_{2082}	P_{2082}	P_{2114}	P_{2114}

Line 2 intersects

Line	ℓ_0	ℓ_1
in point	P_{2082}	P_{2082}

Line 3 intersects

Line	ℓ_1	ℓ_4
in point	P_{2114}	P_{2114}

Line 4 intersects

Line	ℓ_1	ℓ_3
in point	P_{2114}	P_{2114}

The surface has 1121 points:
Too many to print.