Rank-65744 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_2^3 + X_3^3 + X_0^2X_3 + X_0X_1^2 + X_0X_1X_2 = 0$$

(1, 0, 1, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2112813018

General information

Number of lines	3
Number of points	1089
Number of singular points	0
Number of Eckardt points	0
Number of double points	3
Number of single points	93
Number of points off lines	993
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^3
Type of lines on points	2^3, 1^{93}, 0^{993}

Singular Points

The surface has 0 singular points:

The 3 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082369} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082369} = \mathbf{Pl}(0,0,0,1,0,1)_{36865}$$

$$\ell_1 = \left[\begin{array}{cccc} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{array}\right]_{2082} = \left[\begin{array}{cccc} 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{array}\right]_{2082} = \mathbf{Pl}(0,0,1,1,1,1)_{70562}$$

$$\ell_2 = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{34914} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{34914} = \mathbf{Pl}(1,0,1,1,1,1)_{70563}$$

Rank of lines: (1082369, 2082, 34914)
Rank of points on Klein quadric: (36865, 70562, 70563)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 3 Double points:
The double points on the surface are:

$P_{2082} = (0,0,1,1) = \ell_0 \cap \ell_1$
$P_{2114} = (0,1,1,1) = \ell_0 \cap \ell_2$
$P_5 = (1,1,0,0) = \ell_1 \cap \ell_2$

Single Points

The surface has 93 single points:
The single points on the surface are:

0 : $P_1 = (0,1,0,0)$ lies on line ℓ_0
1 : $P_4 = (1,1,1,1)$ lies on line ℓ_1
2 : $P_{2083} = (1,0,1,1)$ lies on line ℓ_2
3 : $P_{2145} = (0,2,1,1)$ lies on line ℓ_0
4 : $P_{2147} = (2,2,1,1)$ lies on line ℓ_1
5 : $P_{2148} = (3,2,1,1)$ lies on line ℓ_2
6 : $P_{2177} = (0,3,1,1)$ lies on line ℓ_0
7 : $P_{2179} = (2,3,1,1)$ lies on line ℓ_2
8 : $P_{2180} = (3,3,1,1)$ lies on line ℓ_1
9 : $P_{2209} = (0,4,1,1)$ lies on line ℓ_0
10 : $P_{2213} = (4,4,1,1)$ lies on line ℓ_1
11 : $P_{2214} = (5,4,1,1)$ lies on line ℓ_2
12 : $P_{2241} = (0,5,1,1)$ lies on line ℓ_0
13 : $P_{2245} = (4,5,1,1)$ lies on line ℓ_2
14 : $P_{2246} = (5,5,1,1)$ lies on line ℓ_1
15 : $P_{2273} = (0,6,1,1)$ lies on line ℓ_0
16 : $P_{2279} = (6,6,1,1)$ lies on line ℓ_1
17 : $P_{2280} = (7,6,1,1)$ lies on line ℓ_2
18 : $P_{2305} = (0,7,1,1)$ lies on line ℓ_0
19 : $P_{2311} = (6,7,1,1)$ lies on line ℓ_2
20 : $P_{2312} = (7,7,1,1)$ lies on line ℓ_1
21 : $P_{2337} = (0,8,1,1)$ lies on line ℓ_0
22 : $P_{2345} = (8,8,1,1)$ lies on line ℓ_1
23 : $P_{2346} = (9,8,1,1)$ lies on line ℓ_2
24 : $P_{2369} = (0,9,1,1)$ lies on line ℓ_0
25 : $P_{2377} = (8,9,1,1)$ lies on line ℓ_2
26 : $P_{2378} = (9,9,1,1)$ lies on line ℓ_1
27 : $P_{2401} = (0,10,1,1)$ lies on line ℓ_0
28 : $P_{2411} = (10,10,1,1)$ lies on line ℓ_1
29 : $P_{2412} = (11,10,1,1)$ lies on line ℓ_2
30 : $P_{2433} = (0,11,1,1)$ lies on line ℓ_0
31 : $P_{2443} = (10,11,1,1)$ lies on line ℓ_2
32 : $P_{2444} = (11,11,1,1)$ lies on line ℓ_1
33 : $P_{2465} = (0,12,1,1)$ lies on line ℓ_0
34 : $P_{2477} = (12,12,1,1)$ lies on line ℓ_1
35 : $P_{2478} = (13,12,1,1)$ lies on line ℓ_2
36 : $P_{2497} = (0,13,1,1)$ lies on line ℓ_0
37 : $P_{2509} = (12,13,1,1)$ lies on line ℓ_2
38 : $P_{2510} = (13,13,1,1)$ lies on line ℓ_1
39 : $P_{2529} = (0,14,1,1)$ lies on line ℓ_0
40 : $P_{2543} = (14,14,1,1)$ lies on line ℓ_1
41 : $P_{2544} = (15,14,1,1)$ lies on line ℓ_2
42 : $P_{2561} = (0,15,1,1)$ lies on line ℓ_0
43 : $P_{2575} = (14,15,1,1)$ lies on line ℓ_2
44 : $P_{2576} = (15,15,1,1)$ lies on line ℓ_1
45 : $P_{2593} = (0,16,1,1)$ lies on line ℓ_0
46 : $P_{2609} = (16,16,1,1)$ lies on line ℓ_1
47 : $P_{2610} = (17,16,1,1)$ lies on line ℓ_2
48 : $P_{2625} = (0,17,1,1)$ lies on line ℓ_0
49 : $P_{2641} = (16,17,1,1)$ lies on line ℓ_2
50 : $P_{2642} = (17,17,1,1)$ lies on line ℓ_1
51 : $P_{2657} = (0,18,1,1)$ lies on line ℓ_0
52 : $P_{2675} = (18,18,1,1)$ lies on line ℓ_1
53 : $P_{2676} = (19,18,1,1)$ lies on line ℓ_2
54 : $P_{2689} = (0,19,1,1)$ lies on line ℓ_0
55 : $P_{2707} = (18,19,1,1)$ lies on line ℓ_2

56 : $P_{2708} = (19, 19, 1, 1)$ lies on line ℓ_1
57 : $P_{2721} = (0, 20, 1, 1)$ lies on line ℓ_0
58 : $P_{2741} = (20, 20, 1, 1)$ lies on line ℓ_1
59 : $P_{2742} = (21, 20, 1, 1)$ lies on line ℓ_2
60 : $P_{2753} = (0, 21, 1, 1)$ lies on line ℓ_0
61 : $P_{2773} = (20, 21, 1, 1)$ lies on line ℓ_2
62 : $P_{2774} = (21, 21, 1, 1)$ lies on line ℓ_1
63 : $P_{2785} = (0, 22, 1, 1)$ lies on line ℓ_0
64 : $P_{2807} = (22, 22, 1, 1)$ lies on line ℓ_1
65 : $P_{2808} = (23, 22, 1, 1)$ lies on line ℓ_2
66 : $P_{2817} = (0, 23, 1, 1)$ lies on line ℓ_0
67 : $P_{2839} = (22, 23, 1, 1)$ lies on line ℓ_2
68 : $P_{2840} = (23, 23, 1, 1)$ lies on line ℓ_1
69 : $P_{2849} = (0, 24, 1, 1)$ lies on line ℓ_0
70 : $P_{2873} = (24, 24, 1, 1)$ lies on line ℓ_1
71 : $P_{2874} = (25, 24, 1, 1)$ lies on line ℓ_2
72 : $P_{2881} = (0, 25, 1, 1)$ lies on line ℓ_0
73 : $P_{2905} = (24, 25, 1, 1)$ lies on line ℓ_2
74 : $P_{2906} = (25, 25, 1, 1)$ lies on line ℓ_1
75 : $P_{2913} = (0, 26, 1, 1)$ lies on line ℓ_0
76 : $P_{2939} = (26, 26, 1, 1)$ lies on line ℓ_1
77 : $P_{2940} = (27, 26, 1, 1)$ lies on line ℓ_2
78 : $P_{2945} = (0, 27, 1, 1)$ lies on line ℓ_0
79 : $P_{2971} = (26, 27, 1, 1)$ lies on line ℓ_2
80 : $P_{2972} = (27, 27, 1, 1)$ lies on line ℓ_1
81 : $P_{2977} = (0, 28, 1, 1)$ lies on line ℓ_0
82 : $P_{3005} = (28, 28, 1, 1)$ lies on line ℓ_1
83 : $P_{3006} = (29, 28, 1, 1)$ lies on line ℓ_2
84 : $P_{3009} = (0, 29, 1, 1)$ lies on line ℓ_0
85 : $P_{3037} = (28, 29, 1, 1)$ lies on line ℓ_2
86 : $P_{3038} = (29, 29, 1, 1)$ lies on line ℓ_1
87 : $P_{3041} = (0, 30, 1, 1)$ lies on line ℓ_0
88 : $P_{3071} = (30, 30, 1, 1)$ lies on line ℓ_1
89 : $P_{3072} = (31, 30, 1, 1)$ lies on line ℓ_2
90 : $P_{3073} = (0, 31, 1, 1)$ lies on line ℓ_0
91 : $P_{3103} = (30, 31, 1, 1)$ lies on line ℓ_2
92 : $P_{3104} = (31, 31, 1, 1)$ lies on line ℓ_1

The single points on the surface are:

Points on surface but on no line

The surface has 993 points not on any line:
The points on the surface but not on lines are:

0 : $P_{36} = (1, 0, 1, 0)$
1 : $P_{68} = (1, 1, 1, 0)$
2 : $P_{104} = (5, 2, 1, 0)$
3 : $P_{115} = (16, 2, 1, 0)$
4 : $P_{120} = (21, 2, 1, 0)$
5 : $P_{136} = (5, 3, 1, 0)$
6 : $P_{147} = (16, 3, 1, 0)$
7 : $P_{152} = (21, 3, 1, 0)$
8 : $P_{176} = (13, 4, 1, 0)$
9 : $P_{180} = (17, 4, 1, 0)$
10 : $P_{191} = (28, 4, 1, 0)$
11 : $P_{208} = (13, 5, 1, 0)$
12 : $P_{212} = (17, 5, 1, 0)$
13 : $P_{223} = (28, 5, 1, 0)$
14 : $P_{242} = (15, 6, 1, 0)$
15 : $P_{274} = (15, 7, 1, 0)$
16 : $P_{421} = (2, 12, 1, 0)$
17 : $P_{443} = (24, 12, 1, 0)$
18 : $P_{445} = (26, 12, 1, 0)$
19 : $P_{453} = (2, 13, 1, 0)$
20 : $P_{475} = (24, 13, 1, 0)$
21 : $P_{477} = (26, 13, 1, 0)$
22 : $P_{559} = (12, 16, 1, 0)$
23 : $P_{570} = (23, 16, 1, 0)$
24 : $P_{574} = (27, 16, 1, 0)$
25 : $P_{591} = (12, 17, 1, 0)$
26 : $P_{602} = (23, 17, 1, 0)$
27 : $P_{606} = (27, 17, 1, 0)$
28 : $P_{706} = (31, 20, 1, 0)$
29 : $P_{738} = (31, 21, 1, 0)$
30 : $P_{748} = (9, 22, 1, 0)$
31 : $P_{780} = (9, 23, 1, 0)$
32 : $P_{814} = (11, 24, 1, 0)$
33 : $P_{846} = (11, 25, 1, 0)$
34 : $P_{870} = (3, 26, 1, 0)$
35 : $P_{871} = (4, 26, 1, 0)$
36 : $P_{874} = (7, 26, 1, 0)$
37 : $P_{902} = (3, 27, 1, 0)$
38 : $P_{903} = (4, 27, 1, 0)$
39 : $P_{906} = (7, 27, 1, 0)$
40 : $P_{949} = (18, 28, 1, 0)$
41 : $P_{981} = (18, 29, 1, 0)$
42 : $P_{1091} = (1, 1, 0, 1)$
43 : $P_{1171} = (17, 3, 0, 1)$
44 : $P_{1230} = (12, 5, 0, 1)$
45 : $P_{1252} = (2, 6, 0, 1)$
46 : $P_{1258} = (8, 6, 0, 1)$
47 : $P_{1261} = (11, 6, 0, 1)$
48 : $P_{1307} = (25, 7, 0, 1)$
49 : $P_{1337} = (23, 8, 0, 1)$

$50: P_{1402} = (24, 10, 0, 1)$
$51: P_{1445} = (3, 12, 0, 1)$
$52: P_{1513} = (7, 14, 0, 1)$
$53: P_{1628} = (26, 17, 0, 1)$
$54: P_{1694} = (28, 19, 0, 1)$
$55: P_{1702} = (4, 20, 0, 1)$
$56: P_{1708} = (10, 20, 0, 1)$
$57: P_{1713} = (15, 20, 0, 1)$
$58: P_{1736} = (6, 21, 0, 1)$
$59: P_{1775} = (13, 22, 0, 1)$
$60: P_{1780} = (18, 22, 0, 1)$
$61: P_{1792} = (30, 22, 0, 1)$
$62: P_{1823} = (29, 23, 0, 1)$
$63: P_{1848} = (22, 24, 0, 1)$
$64: P_{1867} = (9, 25, 0, 1)$
$65: P_{1877} = (19, 25, 0, 1)$
$66: P_{1885} = (27, 25, 0, 1)$
$67: P_{1895} = (5, 26, 0, 1)$
$68: P_{1974} = (20, 28, 0, 1)$
$69: P_{2000} = (14, 29, 0, 1)$
$70: P_{2002} = (16, 29, 0, 1)$
$71: P_{2017} = (31, 29, 0, 1)$
$72: P_{2039} = (21, 30, 0, 1)$
$73: P_{3116} = (11, 0, 2, 1)$
$74: P_{3143} = (6, 1, 2, 1)$
$75: P_{3146} = (9, 1, 2, 1)$
$76: P_{3151} = (14, 1, 2, 1)$
$77: P_{3180} = (11, 2, 2, 1)$
$78: P_{3207} = (6, 3, 2, 1)$
$79: P_{3210} = (9, 3, 2, 1)$
$80: P_{3215} = (14, 3, 2, 1)$
$81: P_{3282} = (17, 5, 2, 1)$
$82: P_{3346} = (17, 7, 2, 1)$
$83: P_{3376} = (15, 8, 2, 1)$
$84: P_{3440} = (15, 10, 2, 1)$
$85: P_{3524} = (3, 13, 2, 1)$
$86: P_{3588} = (3, 15, 2, 1)$
$87: P_{3647} = (30, 16, 2, 1)$
$88: P_{3659} = (10, 17, 2, 1)$
$89: P_{3711} = (30, 18, 2, 1)$
$90: P_{3723} = (10, 19, 2, 1)$
$91: P_{3747} = (2, 20, 2, 1)$
$92: P_{3773} = (28, 20, 2, 1)$
$93: P_{3776} = (31, 20, 2, 1)$
$94: P_{3811} = (2, 22, 2, 1)$
$95: P_{3837} = (28, 22, 2, 1)$
$96: P_{3840} = (31, 22, 2, 1)$
$97: P_{3897} = (24, 24, 2, 1)$
$98: P_{3912} = (7, 25, 2, 1)$
$99: P_{3961} = (24, 26, 2, 1)$
$100: P_{3976} = (7, 27, 2, 1)$
$101: P_{4006} = (5, 28, 2, 1)$
$102: P_{4034} = (1, 29, 2, 1)$
$103: P_{4051} = (18, 29, 2, 1)$
$104: P_{4070} = (5, 30, 2, 1)$
$105: P_{4098} = (1, 31, 2, 1)$
$106: P_{4115} = (18, 31, 2, 1)$
$107: P_{4134} = (5, 0, 3, 1)$
$108: P_{4190} = (29, 1, 3, 1)$
$109: P_{4222} = (29, 2, 3, 1)$
$110: P_{4230} = (5, 3, 3, 1)$
$111: P_{4272} = (15, 4, 3, 1)$
$112: P_{4280} = (23, 4, 3, 1)$
$113: P_{4282} = (25, 4, 3, 1)$
$114: P_{4368} = (15, 7, 3, 1)$
$115: P_{4376} = (23, 7, 3, 1)$
$116: P_{4378} = (25, 7, 3, 1)$
$117: P_{4412} = (27, 8, 3, 1)$
$118: P_{4424} = (7, 9, 3, 1)$
$119: P_{4433} = (16, 9, 3, 1)$
$120: P_{4439} = (22, 9, 3, 1)$
$121: P_{4456} = (7, 10, 3, 1)$
$122: P_{4465} = (16, 10, 3, 1)$
$123: P_{4471} = (22, 10, 3, 1)$
$124: P_{4508} = (27, 11, 3, 1)$
$125: P_{4514} = (1, 12, 3, 1)$
$126: P_{4523} = (10, 12, 3, 1)$
$127: P_{4551} = (6, 13, 3, 1)$
$128: P_{4564} = (19, 13, 3, 1)$
$129: P_{4565} = (20, 13, 3, 1)$
$130: P_{4583} = (6, 14, 3, 1)$
$131: P_{4596} = (19, 14, 3, 1)$
$132: P_{4597} = (20, 14, 3, 1)$
$133: P_{4610} = (1, 15, 3, 1)$
$134: P_{4619} = (10, 15, 3, 1)$
$135: P_{4649} = (8, 16, 3, 1)$
$136: P_{4745} = (8, 19, 3, 1)$
$137: P_{4814} = (13, 21, 3, 1)$
$138: P_{4846} = (13, 22, 3, 1)$
$139: P_{4921} = (24, 24, 3, 1)$
$140: P_{5017} = (24, 27, 3, 1)$
$141: P_{5168} = (15, 0, 4, 1)$
$142: P_{5196} = (11, 1, 4, 1)$
$143: P_{5205} = (20, 1, 4, 1)$
$144: P_{5215} = (30, 1, 4, 1)$
$145: P_{5238} = (21, 2, 4, 1)$
$146: P_{5256} = (7, 3, 4, 1)$
$147: P_{5296} = (15, 4, 4, 1)$
$148: P_{5324} = (11, 5, 4, 1)$
$149: P_{5333} = (20, 5, 4, 1)$
$150: P_{5343} = (30, 5, 4, 1)$
$151: P_{5366} = (21, 6, 4, 1)$
$152: P_{5384} = (7, 7, 4, 1)$
$153: P_{5423} = (14, 8, 4, 1)$
$154: P_{5460} = (19, 9, 4, 1)$
$155: P_{5504} = (31, 10, 4, 1)$
$156: P_{5551} = (14, 12, 4, 1)$
$157: P_{5588} = (19, 13, 4, 1)$

158 : $P_{5632} = (31, 14, 4, 1)$
159 : $P_{5709} = (12, 17, 4, 1)$
160 : $P_{5730} = (1, 18, 4, 1)$
161 : $P_{5738} = (9, 18, 4, 1)$
162 : $P_{5778} = (17, 19, 4, 1)$
163 : $P_{5837} = (12, 21, 4, 1)$
164 : $P_{5858} = (1, 22, 4, 1)$
165 : $P_{5866} = (9, 22, 4, 1)$
166 : $P_{5906} = (17, 23, 4, 1)$
167 : $P_{5957} = (4, 25, 4, 1)$
168 : $P_{5971} = (18, 25, 4, 1)$
169 : $P_{5976} = (23, 25, 4, 1)$
170 : $P_{6022} = (5, 27, 4, 1)$
171 : $P_{6085} = (4, 29, 4, 1)$
172 : $P_{6099} = (18, 29, 4, 1)$
173 : $P_{6104} = (23, 29, 4, 1)$
174 : $P_{6150} = (5, 31, 4, 1)$
175 : $P_{6194} = (17, 0, 5, 1)$
176 : $P_{6231} = (22, 1, 5, 1)$
177 : $P_{6248} = (7, 2, 5, 1)$
178 : $P_{6327} = (22, 4, 5, 1)$
179 : $P_{6354} = (17, 5, 5, 1)$
180 : $P_{6408} = (7, 7, 5, 1)$
181 : $P_{6443} = (10, 8, 5, 1)$
182 : $P_{6499} = (2, 10, 5, 1)$
183 : $P_{6542} = (13, 11, 5, 1)$
184 : $P_{6550} = (21, 11, 5, 1)$
185 : $P_{6554} = (25, 11, 5, 1)$
186 : $P_{6603} = (10, 13, 5, 1)$
187 : $P_{6638} = (13, 14, 5, 1)$
188 : $P_{6646} = (21, 14, 5, 1)$
189 : $P_{6650} = (25, 14, 5, 1)$
190 : $P_{6659} = (2, 15, 5, 1)$
191 : $P_{6695} = (6, 16, 5, 1)$
192 : $P_{6713} = (24, 16, 5, 1)$
193 : $P_{6720} = (31, 16, 5, 1)$
194 : $P_{6855} = (6, 21, 5, 1)$
195 : $P_{6873} = (24, 21, 5, 1)$
196 : $P_{6880} = (31, 21, 5, 1)$
197 : $P_{7004} = (27, 25, 5, 1)$
198 : $P_{7010} = (1, 26, 5, 1)$
199 : $P_{7023} = (14, 26, 5, 1)$
200 : $P_{7049} = (8, 27, 5, 1)$
201 : $P_{7061} = (20, 27, 5, 1)$
202 : $P_{7070} = (29, 27, 5, 1)$
203 : $P_{7100} = (27, 28, 5, 1)$
204 : $P_{7145} = (8, 30, 5, 1)$
205 : $P_{7157} = (20, 30, 5, 1)$
206 : $P_{7166} = (29, 30, 5, 1)$
207 : $P_{7170} = (1, 31, 5, 1)$
208 : $P_{7183} = (14, 31, 5, 1)$
209 : $P_{7271} = (6, 2, 6, 1)$
210 : $P_{7335} = (6, 4, 6, 1)$
211 : $P_{7483} = (26, 8, 6, 1)$
212 : $P_{7524} = (3, 10, 6, 1)$
213 : $P_{7546} = (25, 10, 6, 1)$
214 : $P_{7548} = (27, 10, 6, 1)$
215 : $P_{7562} = (9, 11, 6, 1)$
216 : $P_{7588} = (3, 12, 6, 1)$
217 : $P_{7610} = (25, 12, 6, 1)$
218 : $P_{7612} = (27, 12, 6, 1)$
219 : $P_{7626} = (9, 13, 6, 1)$
220 : $P_{7675} = (26, 14, 6, 1)$
221 : $P_{7811} = (2, 19, 6, 1)$
222 : $P_{7875} = (2, 21, 6, 1)$
223 : $P_{7999} = (30, 24, 6, 1)$
224 : $P_{8014} = (13, 25, 6, 1)$
225 : $P_{8048} = (15, 26, 6, 1)$
226 : $P_{8083} = (18, 27, 6, 1)$
227 : $P_{8112} = (15, 28, 6, 1)$
228 : $P_{8147} = (18, 29, 6, 1)$
229 : $P_{8191} = (30, 30, 6, 1)$
230 : $P_{8206} = (13, 31, 6, 1)$
231 : $P_{8238} = (13, 0, 7, 1)$
232 : $P_{8245} = (20, 0, 7, 1)$
233 : $P_{8249} = (24, 0, 7, 1)$
234 : $P_{8265} = (8, 1, 7, 1)$
235 : $P_{8306} = (17, 2, 7, 1)$
236 : $P_{8336} = (15, 3, 7, 1)$
237 : $P_{8368} = (15, 4, 7, 1)$
238 : $P_{8402} = (17, 5, 7, 1)$
239 : $P_{8425} = (8, 6, 7, 1)$
240 : $P_{8462} = (13, 7, 7, 1)$
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647 : $P_{21860} = (3, 10, 20, 1)$
648 : $P_{21987} = (2, 14, 20, 1)$
649 : $P_{21990} = (5, 14, 20, 1)$
650 : $P_{21991} = (6, 14, 20, 1)$
651 : $P_{22028} = (11, 15, 20, 1)$
652 : $P_{22069} = (20, 16, 20, 1)$
653 : $P_{22140} = (27, 18, 20, 1)$
654 : $P_{22164} = (19, 19, 20, 1)$
655 : $P_{22250} = (9, 22, 20, 1)$
656 : $P_{22304} = (31, 23, 20, 1)$
657 : $P_{22371} = (2, 26, 20, 1)$
658 : $P_{22374} = (5, 26, 20, 1)$
659 : $P_{22375} = (6, 26, 20, 1)$
660 : $P_{22412} = (11, 27, 20, 1)$
661 : $P_{22437} = (4, 28, 20, 1)$
662 : $P_{22500} = (3, 30, 20, 1)$
663 : $P_{22568} = (7, 0, 21, 1)$
664 : $P_{22588} = (27, 0, 21, 1)$
665 : $P_{22590} = (29, 0, 21, 1)$
666 : $P_{22603} = (10, 1, 21, 1)$
667 : $P_{22701} = (12, 4, 21, 1)$
668 : $P_{22752} = (31, 5, 21, 1)$
669 : $P_{22772} = (19, 6, 21, 1)$
670 : $P_{22786} = (1, 7, 21, 1)$
671 : $P_{22790} = (5, 7, 21, 1)$
672 : $P_{22832} = (15, 8, 21, 1)$
673 : $P_{22839} = (22, 8, 21, 1)$
674 : $P_{22841} = (24, 8, 21, 1)$
675 : $P_{22855} = (6, 9, 21, 1)$
676 : $P_{22922} = (9, 11, 21, 1)$
677 : $P_{22973} = (28, 12, 21, 1)$
678 : $P_{22980} = (3, 13, 21, 1)$
679 : $P_{23017} = (8, 14, 21, 1)$
680 : $P_{23104} = (31, 16, 21, 1)$
681 : $P_{23117} = (12, 17, 21, 1)$
682 : $P_{23138} = (1, 18, 21, 1)$
683 : $P_{23142} = (5, 18, 21, 1)$
684 : $P_{23188} = (19, 19, 21, 1)$
685 : $P_{23211} = (10, 20, 21, 1)$
686 : $P_{23240} = (7, 21, 21, 1)$
687 : $P_{23260} = (27, 21, 21, 1)$
688 : $P_{23262} = (29, 21, 21, 1)$
689 : $P_{23332} = (3, 24, 21, 1)$
690 : $P_{23389} = (28, 25, 21, 1)$
691 : $P_{23433} = (8, 27, 21, 1)$
692 : $P_{23463} = (6, 28, 21, 1)$
693 : $P_{23504} = (15, 29, 21, 1)$
694 : $P_{23511} = (22, 29, 21, 1)$
695 : $P_{23513} = (24, 29, 21, 1)$
696 : $P_{23530} = (9, 30, 21, 1)$
697 : $P_{23744} = (31, 4, 22, 1)$

698 : $P_{23757} = (12, 5, 22, 1)$
699 : $P_{23761} = (16, 5, 22, 1)$
700 : $P_{23774} = (29, 5, 22, 1)$
701 : $P_{23792} = (15, 6, 22, 1)$
702 : $P_{23818} = (9, 7, 22, 1)$
703 : $P_{23858} = (17, 8, 22, 1)$
704 : $P_{23915} = (10, 10, 22, 1)$
705 : $P_{23941} = (4, 11, 22, 1)$
706 : $P_{24023} = (22, 13, 22, 1)$
707 : $P_{24046} = (13, 14, 22, 1)$
708 : $P_{24112} = (15, 16, 22, 1)$
709 : $P_{24138} = (9, 17, 22, 1)$
710 : $P_{24192} = (31, 18, 22, 1)$
711 : $P_{24205} = (12, 19, 22, 1)$
712 : $P_{24209} = (16, 19, 22, 1)$
713 : $P_{24222} = (29, 19, 22, 1)$
714 : $P_{24366} = (13, 24, 22, 1)$
715 : $P_{24471} = (22, 27, 22, 1)$
716 : $P_{24491} = (10, 28, 22, 1)$
717 : $P_{24517} = (4, 29, 22, 1)$
718 : $P_{24562} = (17, 30, 22, 1)$
719 : $P_{24613} = (4, 0, 23, 1)$
720 : $P_{24634} = (25, 0, 23, 1)$
721 : $P_{24637} = (28, 0, 23, 1)$
722 : $P_{24671} = (30, 1, 23, 1)$
723 : $P_{24690} = (17, 2, 23, 1)$
724 : $P_{24729} = (24, 3, 23, 1)$
725 : $P_{24751} = (14, 4, 23, 1)$
726 : $P_{24880} = (15, 8, 23, 1)$
727 : $P_{24939} = (10, 10, 23, 1)$
728 : $P_{24962} = (1, 11, 23, 1)$
729 : $P_{24973} = (12, 11, 23, 1)$
730 : $P_{25002} = (9, 12, 23, 1)$
731 : $P_{25028} = (3, 13, 23, 1)$
732 : $P_{25063} = (6, 14, 23, 1)$
733 : $P_{25075} = (18, 14, 23, 1)$
734 : $P_{25078} = (21, 14, 23, 1)$
735 : $P_{25118} = (29, 15, 23, 1)$
736 : $P_{25231} = (14, 19, 23, 1)$
737 : $P_{25273} = (24, 20, 23, 1)$
738 : $P_{25298} = (17, 21, 23, 1)$
739 : $P_{25343} = (30, 22, 23, 1)$
740 : $P_{25349} = (4, 23, 23, 1)$
741 : $P_{25370} = (25, 23, 23, 1)$
742 : $P_{25373} = (28, 23, 23, 1)$
743 : $P_{25406} = (29, 24, 23, 1)$
744 : $P_{25415} = (6, 25, 23, 1)$
745 : $P_{25427} = (18, 25, 23, 1)$
746 : $P_{25430} = (21, 25, 23, 1)$
747 : $P_{25444} = (3, 26, 23, 1)$
748 : $P_{25482} = (9, 27, 23, 1)$
749 : $P_{25506} = (1, 28, 23, 1)$
750 : $P_{25517} = (12, 28, 23, 1)$
751 : $P_{25547} = (10, 29, 23, 1)$
752 : $P_{25616} = (15, 31, 23, 1)$
753 : $P_{25639} = (6, 0, 24, 1)$
754 : $P_{25649} = (16, 0, 24, 1)$
755 : $P_{25656} = (23, 0, 24, 1)$
756 : $P_{25684} = (19, 1, 24, 1)$
757 : $P_{25708} = (11, 2, 24, 1)$
758 : $P_{25734} = (5, 3, 24, 1)$
759 : $P_{25773} = (12, 4, 24, 1)$
760 : $P_{25800} = (7, 5, 24, 1)$
761 : $P_{25834} = (9, 6, 24, 1)$
762 : $P_{25845} = (20, 6, 24, 1)$
763 : $P_{25853} = (28, 6, 24, 1)$
764 : $P_{25879} = (22, 7, 24, 1)$
765 : $P_{25919} = (30, 8, 24, 1)$
766 : $P_{25984} = (31, 10, 24, 1)$
767 : $P_{26095} = (14, 14, 24, 1)$
768 : $P_{26114} = (1, 15, 24, 1)$
769 : $P_{26139} = (26, 15, 24, 1)$
770 : $P_{26175} = (30, 16, 24, 1)$
771 : $P_{26240} = (31, 18, 24, 1)$
772 : $P_{26351} = (14, 22, 24, 1)$
773 : $P_{26370} = (1, 23, 24, 1)$
774 : $P_{26395} = (26, 23, 24, 1)$
775 : $P_{26407} = (6, 24, 24, 1)$
776 : $P_{26417} = (16, 24, 24, 1)$
777 : $P_{26424} = (23, 24, 24, 1)$
778 : $P_{26452} = (19, 25, 24, 1)$
779 : $P_{26476} = (11, 26, 24, 1)$
780 : $P_{26502} = (5, 27, 24, 1)$
781 : $P_{26541} = (12, 28, 24, 1)$
782 : $P_{26568} = (7, 29, 24, 1)$
783 : $P_{26602} = (9, 30, 24, 1)$
784 : $P_{26613} = (20, 30, 24, 1)$
785 : $P_{26621} = (28, 30, 24, 1)$
786 : $P_{26647} = (22, 31, 24, 1)$
787 : $P_{26746} = (25, 2, 25, 1)$
788 : $P_{26908} = (27, 7, 25, 1)$
789 : $P_{26926} = (13, 8, 25, 1)$
790 : $P_{26935} = (22, 8, 25, 1)$
791 : $P_{26939} = (26, 8, 25, 1)$
792 : $P_{26963} = (18, 9, 25, 1)$
793 : $P_{26989} = (12, 10, 25, 1)$
794 : $P_{27052} = (11, 12, 25, 1)$
795 : $P_{27104} = (31, 13, 25, 1)$
796 : $P_{27119} = (14, 14, 25, 1)$
797 : $P_{27153} = (16, 15, 25, 1)$
798 : $P_{27187} = (18, 16, 25, 1)$
799 : $P_{27214} = (13, 17, 25, 1)$
800 : $P_{27223} = (22, 17, 25, 1)$
801 : $P_{27227} = (26, 17, 25, 1)$
802 : $P_{27277} = (12, 19, 25, 1)$
803 : $P_{27328} = (31, 20, 25, 1)$
804 : $P_{27340} = (11, 21, 25, 1)$
805 : $P_{27377} = (16, 22, 25, 1)$

$806: P_{27407} = (14, 23, 25, 1)$
$807: P_{27546} = (25, 27, 25, 1)$
$808: P_{27644} = (27, 30, 25, 1)$
$809: P_{27684} = (3, 0, 26, 1)$
$810: P_{27733} = (20, 1, 26, 1)$
$811: P_{27756} = (11, 2, 26, 1)$
$812: P_{27767} = (22, 2, 26, 1)$
$813: P_{27773} = (28, 2, 26, 1)$
$814: P_{27828} = (19, 4, 26, 1)$
$815: P_{27921} = (16, 7, 26, 1)$
$816: P_{27941} = (4, 8, 26, 1)$
$817: P_{27961} = (24, 8, 26, 1)$
$818: P_{27966} = (29, 8, 26, 1)$
$819: P_{27982} = (13, 9, 26, 1)$
$820: P_{28007} = (6, 10, 26, 1)$
$821: P_{28026} = (25, 10, 26, 1)$
$822: P_{28031} = (30, 10, 26, 1)$
$823: P_{28034} = (1, 11, 26, 1)$
$824: P_{28041} = (8, 11, 26, 1)$
$825: P_{28120} = (23, 13, 26, 1)$
$826: P_{28199} = (6, 16, 26, 1)$
$827: P_{28218} = (25, 16, 26, 1)$
$828: P_{28223} = (30, 16, 26, 1)$
$829: P_{28226} = (1, 17, 26, 1)$
$830: P_{28233} = (8, 17, 26, 1)$
$831: P_{28261} = (4, 18, 26, 1)$
$832: P_{28281} = (24, 18, 26, 1)$
$833: P_{28286} = (29, 18, 26, 1)$
$834: P_{28302} = (13, 19, 26, 1)$
$835: P_{28440} = (23, 23, 26, 1)$
$836: P_{28460} = (11, 24, 26, 1)$
$837: P_{28471} = (22, 24, 26, 1)$
$838: P_{28477} = (28, 24, 26, 1)$
$839: P_{28516} = (3, 26, 26, 1)$
$840: P_{28565} = (20, 27, 26, 1)$
$841: P_{28625} = (16, 29, 26, 1)$
$842: P_{28660} = (19, 30, 26, 1)$
$843: P_{28714} = (9, 0, 27, 1)$
$844: P_{28747} = (10, 1, 27, 1)$
$845: P_{28755} = (18, 1, 27, 1)$
$846: P_{28762} = (25, 1, 27, 1)$
$847: P_{28806} = (5, 3, 27, 1)$
$848: P_{28847} = (14, 4, 27, 1)$
$849: P_{28873} = (8, 5, 27, 1)$
$850: P_{28912} = (15, 6, 27, 1)$
$851: P_{28918} = (21, 6, 27, 1)$
$852: P_{28924} = (27, 6, 27, 1)$
$853: P_{28972} = (11, 8, 27, 1)$
$854: P_{29083} = (26, 11, 27, 1)$
$855: P_{29112} = (23, 12, 27, 1)$
$856: P_{29145} = (24, 13, 27, 1)$
$857: P_{29156} = (3, 14, 27, 1)$
$858: P_{29186} = (1, 15, 27, 1)$
$859: P_{29216} = (31, 15, 27, 1)$
$860: P_{29243} = (26, 16, 27, 1)$
$861: P_{29324} = (11, 19, 27, 1)$
$862: P_{29346} = (1, 20, 27, 1)$
$863: P_{29376} = (31, 20, 27, 1)$
$864: P_{29380} = (3, 21, 27, 1)$
$865: P_{29433} = (24, 22, 27, 1)$
$866: P_{29464} = (23, 23, 27, 1)$
$867: P_{29478} = (5, 24, 27, 1)$
$868: P_{29547} = (10, 26, 27, 1)$
$869: P_{29555} = (18, 26, 27, 1)$
$870: P_{29562} = (25, 26, 27, 1)$
$871: P_{29578} = (9, 27, 27, 1)$
$872: P_{29648} = (15, 29, 27, 1)$
$873: P_{29654} = (21, 29, 27, 1)$
$874: P_{29660} = (27, 29, 27, 1)$
$875: P_{29673} = (8, 30, 27, 1)$
$876: P_{29711} = (14, 31, 27, 1)$
$877: P_{29731} = (2, 0, 28, 1)$
$878: P_{29750} = (21, 0, 28, 1)$
$879: P_{29751} = (22, 0, 28, 1)$
$880: P_{29775} = (14, 1, 28, 1)$
$881: P_{29803} = (10, 2, 28, 1)$
$882: P_{29944} = (23, 6, 28, 1)$
$883: P_{29958} = (5, 7, 28, 1)$
$884: P_{29993} = (8, 8, 28, 1)$
$885: P_{30018} = (1, 9, 28, 1)$
$886: P_{30034} = (17, 9, 28, 1)$
$887: P_{30056} = (7, 10, 28, 1)$
$888: P_{30074} = (25, 10, 28, 1)$
$889: P_{30080} = (31, 10, 28, 1)$
$890: P_{30101} = (20, 11, 28, 1)$
$891: P_{30139} = (26, 12, 28, 1)$
$892: P_{30163} = (18, 13, 28, 1)$
$893: P_{30220} = (11, 15, 28, 1)$
$894: P_{30267} = (26, 16, 28, 1)$
$895: P_{30291} = (18, 17, 28, 1)$
$896: P_{30348} = (11, 19, 28, 1)$
$897: P_{30377} = (8, 20, 28, 1)$
$898: P_{30402} = (1, 21, 28, 1)$
$899: P_{30418} = (17, 21, 28, 1)$
$900: P_{30440} = (7, 22, 28, 1)$
$901: P_{30458} = (25, 22, 28, 1)$
$902: P_{30464} = (31, 22, 28, 1)$
$903: P_{30485} = (20, 23, 28, 1)$
$904: P_{30584} = (23, 26, 28, 1)$
$905: P_{30598} = (5, 27, 28, 1)$
$906: P_{30627} = (2, 28, 28, 1)$
$907: P_{30646} = (21, 28, 28, 1)$
$908: P_{30647} = (22, 28, 28, 1)$
$909: P_{30671} = (14, 29, 28, 1)$
$910: P_{30699} = (10, 30, 28, 1)$
$911: P_{30832} = (15, 2, 29, 1)$
$912: P_{30853} = (4, 3, 29, 1)$
$913: P_{30866} = (17, 3, 29, 1)$

914 : $P_{30869} = (20, 3, 29, 1)$
915 : $P_{30892} = (11, 4, 29, 1)$
916 : $P_{30931} = (18, 5, 29, 1)$
917 : $P_{31017} = (8, 8, 29, 1)$
918 : $P_{31043} = (2, 9, 29, 1)$
919 : $P_{31089} = (16, 10, 29, 1)$
920 : $P_{31198} = (29, 13, 29, 1)$
921 : $P_{31206} = (5, 14, 29, 1)$
922 : $P_{31294} = (29, 16, 29, 1)$
923 : $P_{31366} = (5, 19, 29, 1)$
924 : $P_{31395} = (2, 20, 29, 1)$
925 : $P_{31433} = (8, 21, 29, 1)$
926 : $P_{31505} = (16, 23, 29, 1)$
927 : $P_{31539} = (18, 24, 29, 1)$
928 : $P_{31564} = (11, 25, 29, 1)$
929 : $P_{31717} = (4, 30, 29, 1)$
930 : $P_{31730} = (17, 30, 29, 1)$
931 : $P_{31733} = (20, 30, 29, 1)$
932 : $P_{31760} = (15, 31, 29, 1)$
933 : $P_{31785} = (8, 0, 30, 1)$
934 : $P_{31823} = (14, 1, 30, 1)$
935 : $P_{31829} = (20, 1, 30, 1)$
936 : $P_{31836} = (27, 1, 30, 1)$
937 : $P_{31854} = (13, 2, 30, 1)$
938 : $P_{31897} = (24, 3, 30, 1)$
939 : $P_{31956} = (19, 5, 30, 1)$
940 : $P_{32064} = (31, 8, 30, 1)$
941 : $P_{32080} = (15, 9, 30, 1)$
942 : $P_{32083} = (18, 9, 30, 1)$
943 : $P_{32093} = (28, 9, 30, 1)$
944 : $P_{32113} = (16, 10, 30, 1)$
945 : $P_{32166} = (5, 12, 30, 1)$
946 : $P_{32247} = (22, 14, 30, 1)$
947 : $P_{32274} = (17, 15, 30, 1)$
948 : $P_{32311} = (22, 16, 30, 1)$
949 : $P_{32338} = (17, 17, 30, 1)$
950 : $P_{32358} = (5, 18, 30, 1)$
951 : $P_{32433} = (16, 20, 30, 1)$
952 : $P_{32512} = (31, 22, 30, 1)$
953 : $P_{32528} = (15, 23, 30, 1)$
954 : $P_{32531} = (18, 23, 30, 1)$
955 : $P_{32541} = (28, 23, 30, 1)$
956 : $P_{32660} = (19, 27, 30, 1)$
957 : $P_{32686} = (13, 28, 30, 1)$
958 : $P_{32729} = (24, 29, 30, 1)$
959 : $P_{32745} = (8, 30, 30, 1)$
960 : $P_{32783} = (14, 31, 30, 1)$
961 : $P_{32789} = (20, 31, 30, 1)$
962 : $P_{32796} = (27, 31, 30, 1)$
963 : $P_{32927} = (30, 3, 31, 1)$
964 : $P_{32949} = (20, 4, 31, 1)$
965 : $P_{32970} = (9, 5, 31, 1)$
966 : $P_{32994} = (1, 6, 31, 1)$
967 : $P_{33014} = (21, 6, 31, 1)$
968 : $P_{33083} = (26, 8, 31, 1)$
969 : $P_{33100} = (11, 9, 31, 1)$
970 : $P_{33128} = (7, 10, 31, 1)$
971 : $P_{33155} = (2, 11, 31, 1)$
972 : $P_{33165} = (12, 11, 31, 1)$
973 : $P_{33168} = (15, 11, 31, 1)$
974 : $P_{33213} = (28, 12, 31, 1)$
975 : $P_{33239} = (22, 13, 31, 1)$
976 : $P_{33266} = (17, 14, 31, 1)$
977 : $P_{33287} = (6, 15, 31, 1)$
978 : $P_{33319} = (6, 16, 31, 1)$
979 : $P_{33362} = (17, 17, 31, 1)$
980 : $P_{33399} = (22, 18, 31, 1)$
981 : $P_{33437} = (28, 19, 31, 1)$
982 : $P_{33443} = (2, 20, 31, 1)$
983 : $P_{33453} = (12, 20, 31, 1)$
984 : $P_{33456} = (15, 20, 31, 1)$
985 : $P_{33480} = (7, 21, 31, 1)$
986 : $P_{33516} = (11, 22, 31, 1)$
987 : $P_{33563} = (26, 23, 31, 1)$
988 : $P_{33602} = (1, 25, 31, 1)$
989 : $P_{33622} = (21, 25, 31, 1)$
990 : $P_{33642} = (9, 26, 31, 1)$
991 : $P_{33685} = (20, 27, 31, 1)$
992 : $P_{33727} = (30, 28, 31, 1)$

Line Intersection Graph

	0	1	2
0	0	1	1
1	1	0	1
2	1	1	0

Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_2
in point	P_{2082}	P_{2114}

Line 1 intersects

Line	ℓ_0	ℓ_2
in point	P_{2082}	P_5

Line 2 intersects

Line	ℓ_0	ℓ_1
in point	P_{2114}	P_5

The surface has 1089 points:
Too many to print.