Rank-65843 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

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

(0, 0, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(64) is -2113662907

General information

Number of lines	64
Number of points	4097
Number of singular points	65
Number of Eckardt points	0
Number of double points	0
Number of single points	4096
Number of points off lines	0
Number of Hesse planes	0
Number of axes	0
Type of points on lines	65^{64}
Type of lines on points	64, 1^{4096}

Singular Points

The surface has 65 singular points:

0 : $P_2 = \mathbf{P}(0,0,1,0) = \mathbf{P}(0,0,1,0)$
1 : $P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1)$
2 : $P_{8258} = \mathbf{P}(0,0,1,1) = \mathbf{P}(0,0,1,1)$
3 : $P_{12353} = \mathbf{P}(0,0,\epsilon,1) = \mathbf{P}(0,0,2,1)$
4 : $P_{16449} = \mathbf{P}(0,0,\epsilon^{58},1) = \mathbf{P}(0,0,3,1)$
5 : $P_{20545} = \mathbf{P}(0,0,\epsilon^{2},1) = \mathbf{P}(0,0,4,1)$
6 : $P_{24641} = \mathbf{P}(0,0,\epsilon^{53},1) = \mathbf{P}(0,0,5,1)$
7 : $P_{28737} = \mathbf{P}(0,0,\epsilon^{59},1) = \mathbf{P}(0,0,6,1)$
8 : $P_{32833} = \mathbf{P}(0,0,\epsilon^{39},1) = \mathbf{P}(0,0,7,1)$
9 : $P_{36929} = \mathbf{P}(0,0,\epsilon^{3},1) = \mathbf{P}(0,0,8,1)$
10 : $P_{41025} = \mathbf{P}(0,0,\epsilon^{34},1) = \mathbf{P}(0,0,9,1)$
11 : $P_{45121} = \mathbf{P}(0,0,\epsilon^{54},1) = \mathbf{P}(0,0,10,1)$
12 : $P_{49217} = \mathbf{P}(0,0,\epsilon^{18},1) = \mathbf{P}(0,0,11,1)$
13 : $P_{53313} = \mathbf{P}(0,0,\epsilon^{60},1) = \mathbf{P}(0,0,12,1)$
14 : $P_{57409} = \mathbf{P}(0,0,\epsilon^{31},1) = \mathbf{P}(0,0,13,1)$
15 : $P_{61505} = \mathbf{P}(0,0,\epsilon^{40},1) = \mathbf{P}(0,0,14,1)$

$16:\ P_{65601} = \mathbf{P}(0,0,\epsilon^{48},1) = \mathbf{P}(0,0,15,1)$
$17:\ P_{69697} = \mathbf{P}(0,0,\epsilon^{4},1) = \mathbf{P}(0,0,16,1)$
$18:\ P_{73793} = \mathbf{P}(0,0,\epsilon^{43},1) = \mathbf{P}(0,0,17,1)$
$19:\ P_{77889} = \mathbf{P}(0,0,\epsilon^{35},1) = \mathbf{P}(0,0,18,1)$
$20:\ P_{81985} = \mathbf{P}(0,0,\epsilon^{22},1) = \mathbf{P}(0,0,19,1)$
$21:\ P_{86081} = \mathbf{P}(0,0,\epsilon^{55},1) = \mathbf{P}(0,0,20,1)$
$22:\ P_{90177} = \mathbf{P}(0,0,\epsilon^{15},1) = \mathbf{P}(0,0,21,1)$
$23:\ P_{94273} = \mathbf{P}(0,0,\epsilon^{19},1) = \mathbf{P}(0,0,22,1)$
$24:\ P_{98369} = \mathbf{P}(0,0,\epsilon^{26},1) = \mathbf{P}(0,0,23,1)$
$25:\ P_{102465} = \mathbf{P}(0,0,\epsilon^{61},1) = \mathbf{P}(0,0,24,1)$
$26:\ P_{106561} = \mathbf{P}(0,0,\epsilon^{51},1) = \mathbf{P}(0,0,25,1)$
$27:\ P_{110657} = \mathbf{P}(0,0,\epsilon^{32},1) = \mathbf{P}(0,0,26,1)$
$28:\ P_{114753} = \mathbf{P}(0,0,\epsilon^{29},1) = \mathbf{P}(0,0,27,1)$
$29:\ P_{118849} = \mathbf{P}(0,0,\epsilon^{41},1) = \mathbf{P}(0,0,28,1)$
$30:\ P_{122945} = \mathbf{P}(0,0,\epsilon^{13},1) = \mathbf{P}(0,0,29,1)$
$31:\ P_{127041} = \mathbf{P}(0,0,\epsilon^{49},1) = \mathbf{P}(0,0,30,1)$
$32:\ P_{131137} = \mathbf{P}(0,0,\epsilon^{11},1) = \mathbf{P}(0,0,31,1)$
$33:\ P_{135233} = \mathbf{P}(0,0,\epsilon^{5},1) = \mathbf{P}(0,0,32,1)$
$34:\ P_{139329} = \mathbf{P}(0,0,\epsilon^{6},1) = \mathbf{P}(0,0,33,1)$
$35:\ P_{143425} = \mathbf{P}(0,0,\epsilon^{44},1) = \mathbf{P}(0,0,34,1)$
$36:\ P_{147521} = \mathbf{P}(0,0,\epsilon^{7},1) = \mathbf{P}(0,0,35,1)$
$37:\ P_{151617} = \mathbf{P}(0,0,\epsilon^{36},1) = \mathbf{P}(0,0,36,1)$
$38:\ P_{155713} = \mathbf{P}(0,0,\epsilon^{45},1) = \mathbf{P}(0,0,37,1)$
$39:\ P_{159809} = \mathbf{P}(0,0,\epsilon^{23},1) = \mathbf{P}(0,0,38,1)$
$40:\ P_{163905} = \mathbf{P}(0,0,\epsilon^{8},1) = \mathbf{P}(0,0,39,1)$
$41:\ P_{168001} = \mathbf{P}(0,0,\epsilon^{56},1) = \mathbf{P}(0,0,40,1)$
$42:\ P_{172097} = \mathbf{P}(0,0,\epsilon^{37},1) = \mathbf{P}(0,0,41,1)$
$43:\ P_{176193} = \mathbf{P}(0,0,\epsilon^{16},1) = \mathbf{P}(0,0,42,1)$
$44:\ P_{180289} = \mathbf{P}(0,0,\epsilon^{46},1) = \mathbf{P}(0,0,43,1)$
$45:\ P_{184385} = \mathbf{P}(0,0,\epsilon^{20},1) = \mathbf{P}(0,0,44,1)$
$46:\ P_{188481} = \mathbf{P}(0,0,\epsilon^{24},1) = \mathbf{P}(0,0,45,1)$
$47:\ P_{192577} = \mathbf{P}(0,0,\epsilon^{27},1) = \mathbf{P}(0,0,46,1)$
$48:\ P_{196673} = \mathbf{P}(0,0,\epsilon^{9},1) = \mathbf{P}(0,0,47,1)$
$49:\ P_{200769} = \mathbf{P}(0,0,\epsilon^{62},1) = \mathbf{P}(0,0,48,1)$
$50:\ P_{204865} = \mathbf{P}(0,0,\epsilon^{57},1) = \mathbf{P}(0,0,49,1)$
$51:\ P_{208961} = \mathbf{P}(0,0,\epsilon^{52},1) = \mathbf{P}(0,0,50,1)$
$52:\ P_{213057} = \mathbf{P}(0,0,\epsilon^{38},1) = \mathbf{P}(0,0,51,1)$
$53:\ P_{217153} = \mathbf{P}(0,0,\epsilon^{33},1) = \mathbf{P}(0,0,52,1)$
$54:\ P_{221249} = \mathbf{P}(0,0,\epsilon^{17},1) = \mathbf{P}(0,0,53,1)$
$55:\ P_{225345} = \mathbf{P}(0,0,\epsilon^{30},1) = \mathbf{P}(0,0,54,1)$
$56:\ P_{229441} = \mathbf{P}(0,0,\epsilon^{47},1) = \mathbf{P}(0,0,55,1)$
$57:\ P_{233537} = \mathbf{P}(0,0,\epsilon^{42},1) = \mathbf{P}(0,0,56,1)$
$58:\ P_{237633} = \mathbf{P}(0,0,\epsilon^{21},1) = \mathbf{P}(0,0,57,1)$
$59:\ P_{241729} = \mathbf{P}(0,0,\epsilon^{14},1) = \mathbf{P}(0,0,58,1)$
$60:\ P_{245825} = \mathbf{P}(0,0,\epsilon^{25},1) = \mathbf{P}(0,0,59,1)$
$61:\ P_{249921} = \mathbf{P}(0,0,\epsilon^{50},1) = \mathbf{P}(0,0,60,1)$
$62:\ P_{254017} = \mathbf{P}(0,0,\epsilon^{28},1) = \mathbf{P}(0,0,61,1)$
$63:\ P_{258113} = \mathbf{P}(0,0,\epsilon^{12},1) = \mathbf{P}(0,0,62,1)$
$64:\ P_{262209} = \mathbf{P}(0,0,\epsilon^{10},1) = \mathbf{P}(0,0,63,1)$

The 64 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4160} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4160} = \mathbf{Pl}(0,0,0,0,1,0)_{4225}$$

$$\ell_1 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17043520} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17043520} = \mathbf{Pl}(0,0,0,1,0,0)_{129}$$

$$\ell_2 = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047616} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047616} = \mathbf{Pl}(0,1,0,0,0,0)_{1}$$

$$\ell_3 = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{274625} = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{274625} = \mathbf{Pl}(0,1,0,1,1,0)_{12417}$$

$$\ell_4 = \begin{bmatrix} 1 & \epsilon^{25} & \epsilon^{29} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7439867} = \begin{bmatrix} 1 & 59 & 27 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7439867} = \mathbf{Pl}(0,27,0,59,1,0)_{19809}$$

$$\ell_5 = \begin{bmatrix} 1 & \epsilon^{14} & \epsilon^{18} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3174842} = \begin{bmatrix} 1 & 58 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3174842} = \mathbf{Pl}(0,11,0,58,1,0)_{19666}$$

$$\ell_6 = \begin{bmatrix} 1 & \epsilon^{58} & \epsilon^{19} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5875331} = \begin{bmatrix} 1 & 3 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5875331} = \mathbf{Pl}(0,22,0,3,1,0)_{12692}$$

$$\ell_7 = \begin{bmatrix} 1 & \epsilon & \epsilon^{25} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15724418} = \begin{bmatrix} 1 & 2 & 59 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15724418} = \mathbf{Pl}(0,59,0,2,1,0)_{12602}$$

$$\ell_8 = \begin{bmatrix} 1 & \epsilon^{36} & \epsilon^{45} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10007204} = \begin{bmatrix} 1 & 36 & 37 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10007204} = \mathbf{Pl}(0,37,0,36,1,0)_{16898}$$

$$\ell_9 = \begin{bmatrix} 1 & \epsilon^{45} & \epsilon^{54} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2821157} = \begin{bmatrix} 1 & 37 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2821157} = \mathbf{Pl}(0,10,0,37,1,0)_{16998}$$

$$\ell_{10} = \begin{bmatrix} 1 & \epsilon^{41} & \epsilon^{23} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10240220} = \begin{bmatrix} 1 & 28 & 38 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10240220} = \mathbf{Pl}(0, 38, 0, 28, 1, 0)_{15883}$$

$$\ell_{11} = \begin{bmatrix} 1 & \epsilon^{13} & \epsilon^{58} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{923741} = \begin{bmatrix} 1 & 29 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{923741} = \mathbf{Pl}(0, 3, 0, 29, 1, 0)_{15975}$$

$$\ell_{12} = \begin{bmatrix} 1 & \epsilon^{23} & \epsilon^{26} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{6287270} = \begin{bmatrix} 1 & 38 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{6287270} = \mathbf{Pl}(0, 23, 0, 38, 1, 0)_{17138}$$

$$\ell_{13} = \begin{bmatrix} 1 & \epsilon^{8} & \epsilon^{11} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8421863} = \begin{bmatrix} 1 & 39 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8421863} = \mathbf{Pl}(0, 31, 0, 39, 1, 0)_{17273}$$

$$\ell_{14} = \begin{bmatrix} 1 & \epsilon^{49} & \epsilon^{18} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3058334} = \begin{bmatrix} 1 & 30 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3058334} = \mathbf{Pl}(0, 11, 0, 30, 1, 0)_{16110}$$

$$\ell_{15} = \begin{bmatrix} 1 & \epsilon^{11} & \epsilon^{43} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4660319} = \begin{bmatrix} 1 & 31 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4660319} = \mathbf{Pl}(0, 17, 0, 31, 1, 0)_{16243}$$

$$\ell_{16} = \begin{bmatrix} 1 & \epsilon^{12} & \epsilon^{40} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3990398} = \begin{bmatrix} 1 & 62 & 14 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3990398} = \mathbf{Pl}(0, 14, 0, 62, 1, 0)_{20177}$$

$$\ell_{17} = \begin{bmatrix} 1 & \epsilon^{10} & \epsilon^{38} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13847807} = \begin{bmatrix} 1 & 63 & 51 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13847807} = \mathbf{Pl}(0, 51, 0, 63, 1, 0)_{20341}$$

$$\ell_{18} = \begin{bmatrix} 1 & \epsilon^{59} & \epsilon^{37} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10947590} = \begin{bmatrix} 1 & 6 & 41 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10947590} = \mathbf{Pl}(0, 41, 0, 6, 1, 0)_{13092}$$

$$\ell_{19} = \begin{bmatrix} 1 & \epsilon^{39} & \epsilon^{17} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14147399} = \begin{bmatrix} 1 & 7 & 53 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14147399} = \mathbf{Pl}(0, 53, 0, 7, 1, 0)_{13231}$$

$$\ell_{20} = \begin{bmatrix} 1 & \epsilon^{50} & \epsilon^{58} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1052732} = \begin{bmatrix} 1 & 60 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1052732} = \mathbf{Pl}(0, 3, 0, 60, 1, 0)_{19912}$$

$$\ell_{21} = \begin{bmatrix} 1 & \epsilon^{28} & \epsilon^{36} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9844925} = \begin{bmatrix} 1 & 61 & 36 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9844925} = \mathbf{Pl}(0, 36, 0, 61, 1, 0)_{20072}$$

$$\ell_{22} = \begin{bmatrix} 1 & \epsilon^{2} & \epsilon^{50} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15999044} = \begin{bmatrix} 1 & 4 & 60 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15999044} = \mathbf{Pl}(0, 60, 0, 4, 1, 0)_{12857}$$

$$\ell_{23} = \begin{bmatrix} 1 & \epsilon^{53} & \epsilon^{38} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13606469} = \begin{bmatrix} 1 & 5 & 51 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13606469} = \mathbf{Pl}(0, 51, 0, 5, 1, 0)_{12975}$$

$$\ell_{24} = \begin{bmatrix} 1 & \epsilon^{7} & \epsilon^{9} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12666083} = \begin{bmatrix} 1 & 35 & 47 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12666083} = \mathbf{Pl}(0, 47, 0, 35, 1, 0)_{16781}$$

$$\ell_{25} = \begin{bmatrix} 1 & \epsilon^{44} & \epsilon^{46} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11596706} = \begin{bmatrix} 1 & 34 & 43 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11596706} = \mathbf{Pl}(0, 43, 0, 34, 1, 0)_{16650}$$

$$\ell_{26} = \begin{bmatrix} 1 & \epsilon^{29} & \epsilon^{41} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7573019} = \begin{bmatrix} 1 & 27 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7573019} = \mathbf{Pl}(0, 28, 0, 27, 1, 0)_{15746}$$

$$\ell_{27} = \begin{bmatrix} 1 & \epsilon^{32} & \epsilon^{44} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9166682} = \begin{bmatrix} 1 & 26 & 34 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9166682} = \mathbf{Pl}(0, 34, 0, 26, 1, 0)_{15625}$$

$$\ell_{28} = \begin{bmatrix} 1 & \epsilon^{6} & \epsilon^{20} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11858849} = \begin{bmatrix} 1 & 33 & 44 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11858849} = \mathbf{Pl}(0, 44, 0, 33, 1, 0)_{16524}$$

$$\ell_{29} = \begin{bmatrix} 1 & \epsilon^{5} & \epsilon^{19} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5996000} = \begin{bmatrix} 1 & 32 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5996000} = \mathbf{Pl}(0, 22, 0, 32, 1, 0)_{16375}$$

$$\ell_{30} = \begin{bmatrix} 1 & \epsilon^{61} & \epsilon^{50} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16082264} = \begin{bmatrix} 1 & 24 & 60 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16082264} = \mathbf{Pl}(0, 60, 0, 24, 1, 0)_{15397}$$

$$\ell_{31} = \begin{bmatrix} 1 & \epsilon^{51} & \epsilon^{40} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3836441} = \begin{bmatrix} 1 & 25 & 14 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{3836441} = \mathbf{Pl}(0,14,0,25,1,0)_{15478}$$

$$\ell_{32} = \begin{bmatrix} 1 & \epsilon^{15} & \epsilon^{34} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2488277} = \begin{bmatrix} 1 & 21 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2488277} = \mathbf{Pl}(0,9,0,21,1,0)_{14965}$$

$$\ell_{33} = \begin{bmatrix} 1 & \epsilon^{55} & \epsilon^{11} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8342804} = \begin{bmatrix} 1 & 20 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8342804} = \mathbf{Pl}(0,31,0,20,1,0)_{14860}$$

$$\ell_{34} = \begin{bmatrix} 1 & \epsilon^{24} & \epsilon^{17} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14305517} = \begin{bmatrix} 1 & 45 & 53 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14305517} = \mathbf{Pl}(0,53,0,45,1,0)_{18057}$$

$$\ell_{35} = \begin{bmatrix} 1 & \epsilon^{20} & \epsilon^{13} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7910060} = \begin{bmatrix} 1 & 44 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7910060} = \mathbf{Pl}(0,29,0,44,1,0)_{17906}$$

$$\ell_{36} = \begin{bmatrix} 1 & \epsilon^{19} & \epsilon^{46} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11546774} = \begin{bmatrix} 1 & 22 & 43 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11546774} = \mathbf{Pl}(0,43,0,22,1,0)_{15126}$$

$$\ell_{37} = \begin{bmatrix} 1 & \epsilon^{26} & \epsilon^{53} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1431383} = \begin{bmatrix} 1 & 23 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1431383} = \mathbf{Pl}(0,5,0,23,1,0)_{15215}$$

$$\ell_{38} = \begin{bmatrix} 1 & \epsilon^{27} & \epsilon^{45} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10048814} = \begin{bmatrix} 1 & 46 & 37 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10048814} = \mathbf{Pl}(0,37,0,46,1,0)_{18168}$$

$$\ell_{39} = \begin{bmatrix} 1 & \epsilon^{9} & \epsilon^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12449711} = \begin{bmatrix} 1 & 47 & 46 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12449711} = \mathbf{Pl}(0,46,0,47,1,0)_{18304}$$

$$\ell_{40} = \begin{bmatrix} 1 & \epsilon^{3} & \epsilon^{10} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16814600} = \begin{bmatrix} 1 & 8 & 63 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16814600} = \mathbf{Pl}(0,63,0,8,1,0)_{13368}$$

$$\ell_{41} = \begin{bmatrix} 1 & \epsilon^{34} & \epsilon^{41} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7498121} = \begin{bmatrix} 1 & 9 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7498121} = \mathbf{Pl}(0,28,0,9,1,0)_{13460}$$

$$\ell_{42} = \begin{bmatrix} 1 & \epsilon^{57} & \epsilon^{20} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11925425} = \begin{bmatrix} 1 & 49 & 44 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11925425} = \mathbf{Pl}(0,44,0,49,1,0)_{18556}$$

$$\ell_{43} = \begin{bmatrix} 1 & \epsilon^{62} & \epsilon^{25} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15915824} = \begin{bmatrix} 1 & 48 & 59 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15915824} = \mathbf{Pl}(0,59,0,48,1,0)_{18444}$$

$$\ell_{44} = \begin{bmatrix} 1 & \epsilon^{54} & \epsilon^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12295754} = \begin{bmatrix} 1 & 10 & 46 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12295754} = \mathbf{Pl}(0,46,0,10,1,0)_{13605}$$

$$\ell_{45} = \begin{bmatrix} 1 & \epsilon^{18} & \epsilon^{54} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2712971} = \begin{bmatrix} 1 & 11 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2712971} = \mathbf{Pl}(0,10,0,11,1,0)_{13696}$$

$$\ell_{46} = \begin{bmatrix} 1 & \epsilon^{38} & \epsilon^{29} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7406579} = \begin{bmatrix} 1 & 51 & 27 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7406579} = \mathbf{Pl}(0,27,0,51,1,0)_{18793}$$

$$\ell_{47} = \begin{bmatrix} 1 & \epsilon^{52} & \epsilon^{43} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4739378} = \begin{bmatrix} 1 & 50 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4739378} = \mathbf{Pl}(0,17,0,50,1,0)_{18656}$$

$$\ell_{48} = \begin{bmatrix} 1 & \epsilon^{22} & \epsilon^{23} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10202771} = \begin{bmatrix} 1 & 19 & 38 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10202771} = \mathbf{Pl}(0,38,0,19,1,0)_{14740}$$

$$\ell_{49} = \begin{bmatrix} 1 & \epsilon^{35} & \epsilon^{36} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9666002} = \begin{bmatrix} 1 & 18 & 36 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9666002} = \mathbf{Pl}(0,36,0,18,1,0)_{14611}$$

$$\ell_{50} = \begin{bmatrix} 1 & \epsilon^{16} & \epsilon^{22} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5238698} = \begin{bmatrix} 1 & 42 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5238698} = \mathbf{Pl}(0,19,0,42,1,0)_{17642}$$

$$\ell_{51} = \begin{bmatrix} 1 & \epsilon^{46} & \epsilon^{52} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13498283} = \begin{bmatrix} 1 & 43 & 50 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13498283} = \mathbf{Pl}(0,50,0,43,1,0)_{17800}$$

$$\ell_{52} = \begin{bmatrix} 1 & \epsilon^{4} & \epsilon^{37} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10989200} = \begin{bmatrix} 1 & 16 & 41 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10989200} = \mathbf{Pl}(0,41,0,16,1,0)_{14362}$$

$$\ell_{53} = \begin{bmatrix} 1 & \epsilon^{43} & \epsilon^{13} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7797713} = \begin{bmatrix} 1 & 17 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7797713} = \mathbf{Pl}(0,29,0,17,1,0)_{14477}$$

$$\ell_{54} = \begin{bmatrix} 1 & \epsilon^{56} & \epsilon^{9} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12686888} = \begin{bmatrix} 1 & 40 & 47 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12686888} = \mathbf{Pl}(0,47,0,40,1,0)_{17416}$$

$$\ell_{55} = \begin{bmatrix} 1 & \epsilon^{37} & \epsilon^{53} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1506281} = \begin{bmatrix} 1 & 41 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1506281} = \mathbf{Pl}(0,5,0,41,1,0)_{17501}$$

$$\ell_{56} = \begin{bmatrix} 1 & \epsilon^{48} & \epsilon^{34} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2463311} = \begin{bmatrix} 1 & 15 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2463311} = \mathbf{Pl}(0,9,0,15,1,0)_{14203}$$

$$\ell_{57} = \begin{bmatrix} 1 & \epsilon^{40} & \epsilon^{26} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{6187406} = \begin{bmatrix} 1 & 14 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{6187406} = \mathbf{Pl}(0,23,0,14,1,0)_{14090}$$

$$\ell_{58} = \begin{bmatrix} 1 & \epsilon^{30} & \epsilon^{5} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8750582} = \begin{bmatrix} 1 & 54 & 32 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8750582} = \mathbf{Pl}(0,32,0,54,1,0)_{19179}$$

$$\ell_{59} = \begin{bmatrix} 1 & \epsilon^{47} & \epsilon^{22} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5292791} = \begin{bmatrix} 1 & 55 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5292791} = \mathbf{Pl}(0,19,0,55,1,0)_{19293}$$

$$\ell_{60} = \begin{bmatrix} 1 & \epsilon^{60} & \epsilon^{10} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16831244} = \begin{bmatrix} 1 & 12 & 63 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16831244} = \mathbf{Pl}(0,63,0,12,1,0)_{13876}$$

$$\ell_{61} = \begin{bmatrix} 1 & \epsilon^{31} & \epsilon^{44} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9112589} = \begin{bmatrix} 1 & 13 & 34 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9112589} = \mathbf{Pl}(0,34,0,13,1,0)_{13974}$$

$$\ell_{62} = \begin{bmatrix} 1 & \epsilon^{33} & \epsilon^{5} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8742260} = \begin{bmatrix} 1 & 52 & 32 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8742260} = \mathbf{Pl}(0,32,0,52,1,0)_{18925}$$

$$\ell_{63} = \begin{bmatrix} 1 & \epsilon^{17} & \epsilon^{52} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13539893} = \begin{bmatrix} 1 & 53 & 50 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13539893} = \mathbf{Pl}(0,50,0,53,1,0)_{19070}$$

Rank of lines: (4160, 17043520, 17047616, 274625, 7439867, 3174842, 5875331, 15724418, 10007204, 2821157, 10240220, 923741, 6287270, 8421863, 3058334, 4660319, 3990398, 13847807, 10947590, 14147399, 1052732, 9844925, 15999044, 13606469, 12666083, 11596706, 7573019, 9166682, 11858849, 5996000, 16082264, 3836441, 2488277, 8342804, 14305517, 7910060, 11546774, 1431383, 10048814, 12449711, 16814600, 7498121, 11925425, 15915824, 12295754, 2712971, 7406579, 4739378, 10202771, 9666002, ...9112589, 8742260, 13539893)
Rank of points on Klein quadric: (4225, 129, 1, 12417, 19809, 19666, 12692, 12602, 16898, 16998, 15883, 15975, 17138, 17273, 16110, 16243, 20177, 20341, 13092, 13231, 19912, 20072, 12857, 12975, 16781, 16650, 15746, 15625, 16524, 16375, 15397, 15478, 14965, 14860, 18057, 17906, 15126, 15215, 18168, 18304, 13368, 13460, 18556, 18444, 13605, 13696, 18793, 18656, 14740, 14611, ...13974, 18925, 19070)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

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

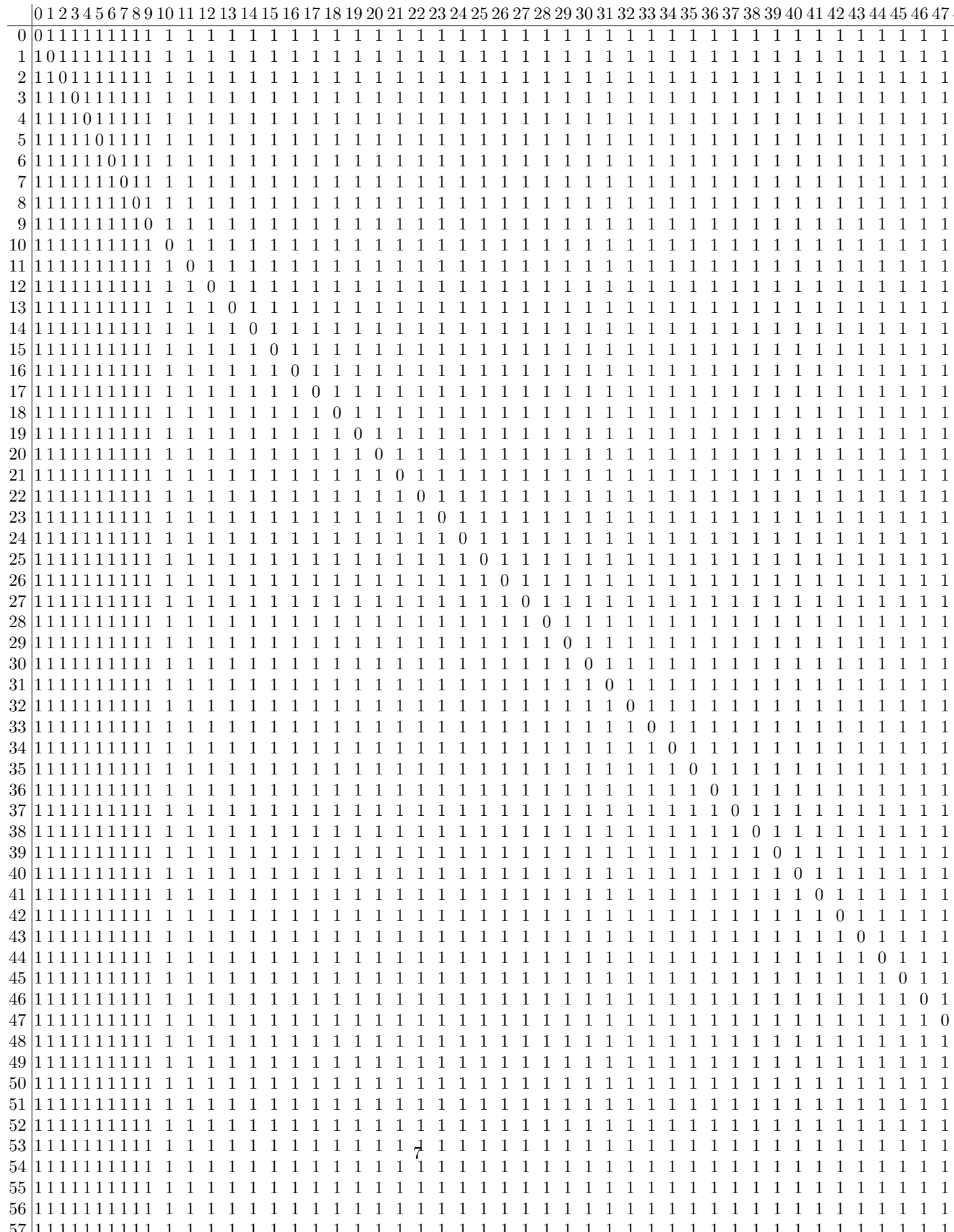
Single Points

The surface has 4096 single points:
Too many to print.

Points on surface but on no line

The surface has 0 points not on any line:
The points on the surface but not on lines are:

Line Intersection Graph



Neighbor sets in the line intersection graph:
Line 0 intersects

Line	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 1 intersects

Line	ℓ_0	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 2 intersects

Line	ℓ_0	ℓ_1	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 3 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 4 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 5 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 6 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 7 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 8 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 9 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 10 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 11 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 12 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 13 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 14 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 15 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 16 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 17 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 18 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 19 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{20}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 20 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{21}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 21 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{22}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 22 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 23 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 24 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 25 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 26 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 27 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 28 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 29 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 30 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 31 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 32 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 33 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 34 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 35 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 36 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 37 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 38 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 39 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 40 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 41 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 42 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 43 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 44 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 45 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 46 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 47 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 48 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 49 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 50 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3

Line 51 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 52 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 53 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 54 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 55 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 56 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 57 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 58 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 59 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 60 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 61 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 62 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

Line 63 intersects

Line	ℓ_0	ℓ_1	ℓ_2	ℓ_3	ℓ_4	ℓ_5	ℓ_6	ℓ_7	ℓ_8	ℓ_9	ℓ_{10}	ℓ_{11}	ℓ_{12}	ℓ_{13}	ℓ_{14}	ℓ_{15}	ℓ_{16}	ℓ_{17}	ℓ_{18}	ℓ_{19}	ℓ_{20}	ℓ_{21}	ℓ
in point	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P_3	P

The surface has 4097 points:
Too many to print.