Rank-65542 over GF(64)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^3 + X_1^3 + X_0X_1X_2 = 0$$

(1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(64) is 1090785414

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:

$$\ell_0 = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047616} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{17047616} = \mathbf{Pl}(0,1,0,0,0,0)_1$$

$$\ell_1 = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8321} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8321} = \mathbf{Pl}(0,0,0,1,1,0)_{12353}$$

$$\ell_2 = \begin{bmatrix} 1 & \epsilon^{21} & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{241337} = \begin{bmatrix} 1 & 57 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{241337} = \mathbf{Pl}(0,0,0,57,1,0)_{19465}$$

$$\ell_3 = \begin{bmatrix} 1 & \epsilon^{42} & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{237176} = \begin{bmatrix} 1 & 56 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{237176} = \mathbf{Pl}(0,0,0,56,1,0)_{19338}$$

$$\ell_4 = \begin{bmatrix} 1 & \epsilon^{45} & \epsilon^{45} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10011365} = \begin{bmatrix} 1 & 37 & 37 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10011365} = \mathbf{Pl}(0,37,0,37,1,0)_{17025}$$

$$\ell_5 = \begin{bmatrix} 1 & \epsilon^{27} & \epsilon^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12445550} = \begin{bmatrix} 1 & 46 & 46 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12445550} = \mathbf{Pl}(0,46,0,46,1,0)_{18177}$$

$$\ell_6 = \begin{bmatrix} 1 & \epsilon^{54} & \epsilon^{54} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2708810} = \begin{bmatrix} 1 & 10 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2708810} = \mathbf{Pl}(0,10,0,10,1,0)_{13569}$$

$$\ell_7 = \begin{bmatrix} 1 & \epsilon^{8} & \epsilon^{12} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16677287} = \begin{bmatrix} 1 & 39 & 62 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16677287} = \mathbf{Pl}(0,62,0,39,1,0)_{17304}$$

$$\ell_8 = \begin{bmatrix} 1 & \epsilon^{47} & \epsilon^{8} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10618871} = \begin{bmatrix} 1 & 55 & 39 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10618871} = \mathbf{Pl}(0,39,0,55,1,0)_{19313}$$

$$\ell_9 = \begin{bmatrix} 1 & \epsilon^{19} & \epsilon^{43} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4622870} = \begin{bmatrix} 1 & 22 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4622870} = \mathbf{Pl}(0,17,0,22,1,0)_{15100}$$

$$\ell_{10} = \begin{bmatrix} 1 & \epsilon^{60} & \epsilon^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15233420} = \begin{bmatrix} 1 & 12 & 57 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15233420} = \mathbf{Pl}(0, 57, 0, 12, 1, 0)_{13870}$$

$$\ell_{11} = \begin{bmatrix} 1 & \epsilon^{37} & \epsilon^{3} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2305193} = \begin{bmatrix} 1 & 41 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2305193} = \mathbf{Pl}(0, 8, 0, 41, 1, 0)_{17504}$$

$$\ell_{12} = \begin{bmatrix} 1 & \epsilon^{18} & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{316235} = \begin{bmatrix} 1 & 11 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{316235} = \mathbf{Pl}(0, 1, 0, 11, 1, 0)_{13687}$$

$$\ell_{13} = \begin{bmatrix} 1 & \epsilon^{40} & \epsilon^{22} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5122190} = \begin{bmatrix} 1 & 14 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{5122190} = \mathbf{Pl}(0, 19, 0, 14, 1, 0)_{14086}$$

$$\ell_{14} = \begin{bmatrix} 1 & \epsilon^{5} & \epsilon^{50} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16115552} = \begin{bmatrix} 1 & 32 & 60 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16115552} = \mathbf{Pl}(0, 60, 0, 32, 1, 0)_{16413}$$

$$\ell_{15} = \begin{bmatrix} 1 & \epsilon^{26} & \epsilon^{29} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7290071} = \begin{bmatrix} 1 & 23 & 27 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7290071} = \mathbf{Pl}(0, 27, 0, 23, 1, 0)_{15237}$$

$$\ell_{16} = \begin{bmatrix} 1 & \epsilon^{61} & \epsilon & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{636632} = \begin{bmatrix} 1 & 24 & 2 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{636632} = \mathbf{Pl}(0, 2, 0, 24, 1, 0)_{15339}$$

$$\ell_{17} = \begin{bmatrix} 1 & \epsilon^{39} & \epsilon^{42} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14946311} = \begin{bmatrix} 1 & 7 & 56 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14946311} = \mathbf{Pl}(0, 56, 0, 7, 1, 0)_{13234}$$

$$\ell_{18} = \begin{bmatrix} 1 & \epsilon & \epsilon^{33} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13860290} = \begin{bmatrix} 1 & 2 & 52 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{13860290} = \mathbf{Pl}(0, 52, 0, 2, 1, 0)_{12595}$$

$$\ell_{19} = \begin{bmatrix} 1 & \epsilon^{25} & \epsilon^{48} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4244219} = \begin{bmatrix} 1 & 59 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4244219} = \mathbf{Pl}(0, 15, 0, 59, 1, 0)_{19797}$$

$$\ell_{20} = \begin{bmatrix} 1 & \epsilon^{7} & \epsilon^{35} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4943267} = \begin{bmatrix} 1 & 35 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4943267} = \mathbf{Pl}(0, 18, 0, 35, 1, 0)_{16752}$$

$$\ell_{21} = \begin{bmatrix} 1 & \epsilon^{16} & \epsilon^{24} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12162602} = \begin{bmatrix} 1 & 42 & 45 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12162602} = \mathbf{Pl}(0, 45, 0, 42, 1, 0)_{17668}$$

$$\ell_{22} = \begin{bmatrix} 1 & \epsilon^{38} & \epsilon^{23} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10335923} = \begin{bmatrix} 1 & 51 & 38 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10335923} = \mathbf{Pl}(0, 38, 0, 51, 1, 0)_{18804}$$

$$\ell_{23} = \begin{bmatrix} 1 & \epsilon^{31} & \epsilon^{16} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11243021} = \begin{bmatrix} 1 & 13 & 42 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11243021} = \mathbf{Pl}(0, 42, 0, 13, 1, 0)_{13982}$$

$$\ell_{24} = \begin{bmatrix} 1 & \epsilon^{57} & \epsilon^{42} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15121073} = \begin{bmatrix} 1 & 49 & 56 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15121073} = \mathbf{Pl}(0, 56, 0, 49, 1, 0)_{18568}$$

$$\ell_{25} = \begin{bmatrix} 1 & \epsilon^{46} & \epsilon^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12433067} = \begin{bmatrix} 1 & 43 & 46 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12433067} = \mathbf{Pl}(0, 46, 0, 43, 1, 0)_{17796}$$

$$\ell_{26} = \begin{bmatrix} 1 & \epsilon^{53} & \epsilon^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12274949} = \begin{bmatrix} 1 & 5 & 46 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12274949} = \mathbf{Pl}(0, 46, 0, 5, 1, 0)_{12970}$$

$$\ell_{27} = \begin{bmatrix} 1 & \epsilon^{4} & \epsilon^{6} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8858768} = \begin{bmatrix} 1 & 16 & 33 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8858768} = \mathbf{Pl}(0, 33, 0, 16, 1, 0)_{14354}$$

$$\ell_{28} = \begin{bmatrix} 1 & \epsilon^{55} & \epsilon^{4} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4348244} = \begin{bmatrix} 1 & 20 & 16 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4348244} = \mathbf{Pl}(0, 16, 0, 20, 1, 0)_{14845}$$

$$\ell_{29} = \begin{bmatrix} 1 & \epsilon^{30} & \epsilon^{42} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15141878} = \begin{bmatrix} 1 & 54 & 56 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15141878} = \mathbf{Pl}(0, 56, 0, 54, 1, 0)_{19203}$$

$$\ell_{30} = \begin{bmatrix} 1 & \epsilon^{41} & \epsilon^{53} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1452188} = \begin{bmatrix} 1 & 28 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1452188} = \mathbf{Pl}(0, 5, 0, 28, 1, 0)_{15850}$$

$$\ell_{31} = \begin{bmatrix} 1 & \epsilon^{23} & \epsilon^{45} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10015526} = \begin{bmatrix} 1 & 38 & 37 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10015526} = \mathbf{Pl}(0,37,0,38,1,0)_{17152}$$

$$\ell_{32} = \begin{bmatrix} 1 & \epsilon^{58} & \epsilon^{45} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9869891} = \begin{bmatrix} 1 & 3 & 37 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9869891} = \mathbf{Pl}(0,37,0,3,1,0)_{12707}$$

$$\ell_{33} = \begin{bmatrix} 1 & \epsilon^{35} & \epsilon^{49} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8068178} = \begin{bmatrix} 1 & 18 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8068178} = \mathbf{Pl}(0,30,0,18,1,0)_{14605}$$

$$\ell_{34} = \begin{bmatrix} 1 & \epsilon^{11} & \epsilon^{6} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8921183} = \begin{bmatrix} 1 & 31 & 33 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8921183} = \mathbf{Pl}(0,33,0,31,1,0)_{16259}$$

$$\ell_{35} = \begin{bmatrix} 1 & \epsilon^{14} & \epsilon^{7} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9566138} = \begin{bmatrix} 1 & 58 & 35 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9566138} = \mathbf{Pl}(0,35,0,58,1,0)_{19690}$$

$$\ell_{36} = \begin{bmatrix} 1 & \epsilon^{36} & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{420260} = \begin{bmatrix} 1 & 36 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{420260} = \mathbf{Pl}(0,1,0,36,1,0)_{16862}$$

$$\ell_{37} = \begin{bmatrix} 1 & \epsilon^{17} & \epsilon^{44} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9279029} = \begin{bmatrix} 1 & 53 & 34 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{9279029} = \mathbf{Pl}(0,34,0,53,1,0)_{19054}$$

$$\ell_{38} = \begin{bmatrix} 1 & \epsilon^{10} & \epsilon^{37} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11184767} = \begin{bmatrix} 1 & 63 & 41 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11184767} = \mathbf{Pl}(0,41,0,63,1,0)_{20331}$$

$$\ell_{39} = \begin{bmatrix} 1 & \epsilon^{49} & \epsilon^{56} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10781150} = \begin{bmatrix} 1 & 30 & 40 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{10781150} = \mathbf{Pl}(0,40,0,30,1,0)_{16139}$$

$$\ell_{40} = \begin{bmatrix} 1 & \epsilon^{44} & \epsilon^{24} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12129314} = \begin{bmatrix} 1 & 34 & 45 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12129314} = \mathbf{Pl}(0,45,0,34,1,0)_{16652}$$

$$\ell_{41} = \begin{bmatrix} 1 & \epsilon^{9} & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{466031} = \begin{bmatrix} 1 & 47 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{466031} = \mathbf{Pl}(0,1,0,47,1,0)_{18259}$$

$$\ell_{42} = \begin{bmatrix} 1 & \epsilon^{20} & \epsilon^{11} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8442668} = \begin{bmatrix} 1 & 44 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8442668} = \mathbf{Pl}(0,31,0,44,1,0)_{17908}$$

$$\ell_{43} = \begin{bmatrix} 1 & \epsilon^{34} & \epsilon^{25} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15753545} = \begin{bmatrix} 1 & 9 & 59 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15753545} = \mathbf{Pl}(0,59,0,9,1,0)_{13491}$$

$$\ell_{44} = \begin{bmatrix} 1 & \epsilon^{2} & \epsilon^{3} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2151236} = \begin{bmatrix} 1 & 4 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2151236} = \mathbf{Pl}(0,8,0,4,1,0)_{12805}$$

$$\ell_{45} = \begin{bmatrix} 1 & \epsilon^{59} & \epsilon^{2} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1094342} = \begin{bmatrix} 1 & 6 & 4 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1094342} = \mathbf{Pl}(0,4,0,6,1,0)_{13055}$$

$$\ell_{46} = \begin{bmatrix} 1 & \epsilon^{52} & \epsilon^{58} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1011122} = \begin{bmatrix} 1 & 50 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1011122} = \mathbf{Pl}(0,3,0,50,1,0)_{18642}$$

$$\ell_{47} = \begin{bmatrix} 1 & \epsilon^{15} & \epsilon^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15270869} = \begin{bmatrix} 1 & 21 & 57 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15270869} = \mathbf{Pl}(0,57,0,21,1,0)_{15013}$$

$$\ell_{48} = \begin{bmatrix} 1 & \epsilon^{43} & \epsilon^{54} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2737937} = \begin{bmatrix} 1 & 17 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2737937} = \mathbf{Pl}(0,10,0,17,1,0)_{14458}$$

$$\ell_{49} = \begin{bmatrix} 1 & \epsilon^{29} & \epsilon^{54} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2779547} = \begin{bmatrix} 1 & 27 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2779547} = \mathbf{Pl}(0,10,0,27,1,0)_{15728}$$

$$\ell_{50} = \begin{bmatrix} 1 & \epsilon^{50} & \epsilon^{33} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14101628} = \begin{bmatrix} 1 & 60 & 52 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14101628} = \mathbf{Pl}(0,52,0,60,1,0)_{19961}$$

$$\ell_{51} = \begin{bmatrix} 1 & \epsilon^{62} & \epsilon^{32} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7127792} = \begin{bmatrix} 1 & 48 & 26 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{7127792} = \mathbf{Pl}(0,26,0,48,1,0)_{18411}$$

$$\ell_{52} = \begin{bmatrix} 1 & \epsilon^{13} & \epsilon^{46} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11575901} = \begin{bmatrix} 1 & 29 & 43 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{11575901} = \mathbf{Pl}(0,43,0,29,1,0)_{16015}$$

$$\ell_{53} = \begin{bmatrix} 1 & \epsilon^{51} & \epsilon^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15287513} = \begin{bmatrix} 1 & 25 & 57 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15287513} = \mathbf{Pl}(0,57,0,25,1,0)_{15521}$$

$$\ell_{54} = \begin{bmatrix} 1 & \epsilon^{32} & \epsilon^{48} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4106906} = \begin{bmatrix} 1 & 26 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4106906} = \mathbf{Pl}(0,15,0,26,1,0)_{15606}$$

$$\ell_{55} = \begin{bmatrix} 1 & \epsilon^{3} & \epsilon^{24} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12021128} = \begin{bmatrix} 1 & 8 & 45 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{12021128} = \mathbf{Pl}(0,45,0,8,1,0)_{13350}$$

$$\ell_{56} = \begin{bmatrix} 1 & \epsilon^{48} & \epsilon^{6} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8854607} = \begin{bmatrix} 1 & 15 & 33 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{8854607} = \mathbf{Pl}(0,33,0,15,1,0)_{14227}$$

$$\ell_{57} = \begin{bmatrix} 1 & \epsilon^{12} & \epsilon^{33} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14109950} = \begin{bmatrix} 1 & 62 & 52 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{14109950} = \mathbf{Pl}(0,52,0,62,1,0)_{20215}$$

$$\ell_{58} = \begin{bmatrix} 1 & \epsilon^{24} & \epsilon^{3} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2321837} = \begin{bmatrix} 1 & 45 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2321837} = \mathbf{Pl}(0,8,0,45,1,0)_{18012}$$

$$\ell_{59} = \begin{bmatrix} 1 & \epsilon^{6} & \epsilon^{48} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4136033} = \begin{bmatrix} 1 & 33 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{4136033} = \mathbf{Pl}(0,15,0,33,1,0)_{16495}$$

$$\ell_{60} = \begin{bmatrix} 1 & \epsilon^{33} & \epsilon^{12} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16731380} = \begin{bmatrix} 1 & 52 & 62 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16731380} = \mathbf{Pl}(0,62,0,52,1,0)_{18955}$$

$$\ell_{61} = \begin{bmatrix} 1 & \epsilon^{28} & \epsilon^{14} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15703613} = \begin{bmatrix} 1 & 61 & 58 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{15703613} = \mathbf{Pl}(0,58,0,61,1,0)_{20094}$$

$$\ell_{62} = \begin{bmatrix} 1 & \epsilon^{56} & \epsilon^{28} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16415144} = \begin{bmatrix} 1 & 40 & 61 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16415144} = \mathbf{Pl}(0,61,0,40,1,0)_{17430}$$

$$\ell_{63} = \begin{bmatrix} 1 & \epsilon^{22} & \epsilon^{12} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16594067} = \begin{bmatrix} 1 & 19 & 62 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{16594067} = \mathbf{Pl}(0,62,0,19,1,0)_{14764}$$

Rank of lines: (17047616, 8321, 241337, 237176, 10011365, 12445550, 2708810, 16677287, 10618871, 4622870, 15233420, 2305193, 316235, 5122190, 16115552, 7290071, 636632, 14946311, 13860290, 4244219, 4943267, 12162602, 10335923, 11243021, 15121073, 12433067, 12274949, 8858768, 4348244, 15141878, 1452188, 10015526, 9869891, 8068178, 8921183, 9566138, 420260, 9279029, 11184767, 10781150, 12129314, 466031, 8442668, 15753545, 2151236, 1094342, 1011122, 15270869, 2737937, 2779547, ...15703613, 16415144, 16594067)
Rank of points on Klein quadric: (1, 12353, 19465, 19338, 17025, 18177, 13569, 17304, 19313, 15100, 13870, 17504, 13687, 14086, 16413, 15237, 15339, 13234, 12595, 19797, 16752, 17668, 18804, 13982, 18568, 17796, 12970, 14354, 14845, 19203, 15850, 17152, 12707, 14605, 16259, 19690, 16862, 19054, 20331, 16139, 16652, 18259, 17908, 13491, 12805, 13055, 18642, 15013, 14458, 15728, ...20094, 17430, 14764)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

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

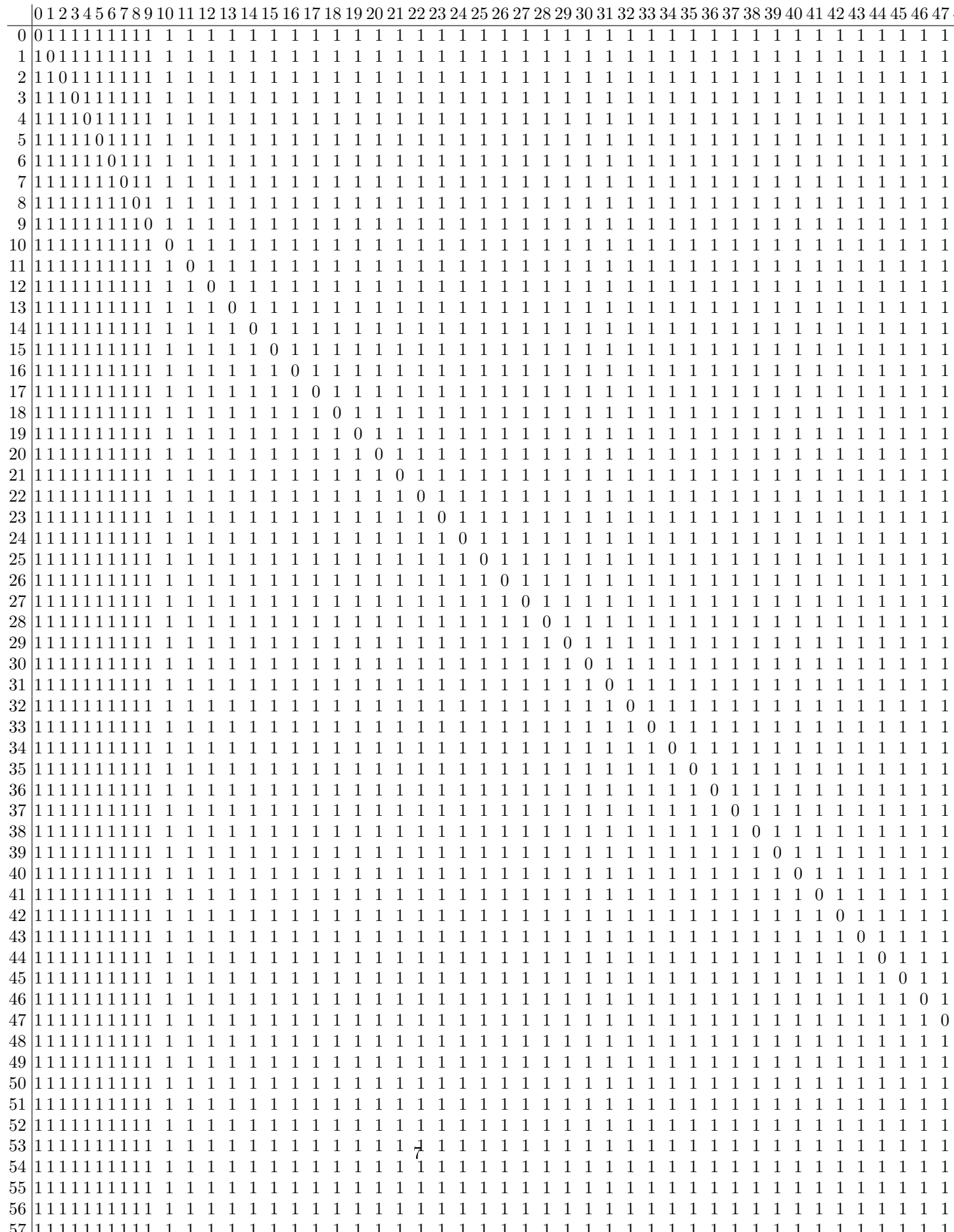
Single Points

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.