Rank-65850 over GF(4)

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The equation

The equation of the surface is:

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

(1, 1, 1, 0, 1, 1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0) The point rank of the equation over $\mathrm{GF}(4)$ is 1431722606

General information

Number of lines	0
Number of points	1
Number of singular points	1
Number of Eckardt points	0
Number of double points	0
Number of single points	0
Number of points off lines	1
Number of Hesse planes	0
Number of axes	0
Type of points on lines	
Type of lines on points	0

Singular Points

The surface has 1 singular points:

$$0: P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1)$$

The 0 Lines

The lines and their Pluecker coordinates are:

Rank of lines: ()

Rank of points on Klein quadric: ()

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 0 single points: The single points on the surface are:

The single points on the surface are:

Points on surface but on no line

The surface has 1 points not on any line: The points on the surface but not on lines are:

$$0: P_3 = (0, 0, 0, 1)$$

${\bf Line\ Intersection\ Graph}$

Neighbor sets in the line intersection graph: The surface has 1 points: The points on the surface are:

$$0: P_3 = (0,0,0,1)$$

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