

# Rank-65850 over GF(32)

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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, 1, 0, 0, 0 )

The point rank of the equation over GF(32) is 1142982726

## 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:

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

### **Line Intersection Graph**

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Neighbor sets in the line intersection graph:

The surface has 1 points:

The points on the surface are:

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