

Chapter 4, nine lines on it — but of these nine, six comprise the edges of the tetrahedron whose vertices are the double points of the surface, and the pencils corresponding to these lines are of the second type (p. 744).

¶ See P643. for a cubic surface in \mathbb{P}^3 with four double points. By the result on the front page, the double points are in W_2 (see P743 & P741), i.e. the double points correspond to the double lines in \mathbb{P}^3 . \Rightarrow The pencils joining these four double lines are of second type by P744.

□

Of the nine pencils of singular conics in X , then, only three have fixed lines.

¶ Since three pencils don't contain two distinct double lines (i.e. two distinct double points in the surface), they have a fixed line by the result on P744 & P836~P837 note.

□

Thus

$$\#(V_1(W) \cdot \sigma_{1,1}) = 3$$

and finally