

of singular conics in  $X$  having a fixed line.

⌈  $l \subset H \cap F_\lambda \Rightarrow H \cap F_\lambda$  is a conic of form  $l \cdot l'$ .  
 $\Rightarrow C_\lambda = H \cap F_\lambda$  is singular.  $\sqcup$

Now, by our discussion of the system of conics, the locus of singular conics in  $X$  is a cubic surface with four double points, these corresponding to the double lines in  $X$ .

⌈ Since  $W$  is a generic web,  $W|_H = X$  is a generic web in the complete system of conic plane curves. By the result on P141, the subvariety  $W_1$  of conics of rank two or less is a cubic hypersurface in the complete system  $\mathbb{P}^5$ .

$\Rightarrow X$  is a generic  $\mathbb{P}^3 \Rightarrow X \cap W_1$  is a cubic surface. By the results on P141 ~ P143,  $W_1 - W_2$  is smooth, and  $W_2$  is the Veronese surface with degree 4 in  $\mathbb{P}^5$ .  $\Rightarrow \#(X \cap W_2) = 4$ , and each point of  $X \cap W_2$  is a double point by the result on P143.  $\Rightarrow X \cap W_1$  is a cubic surface in  $X (= \mathbb{P}^3)$  with four double points, these corresponding to the double lines in  $X$ , i.e.  $l \cup l = l^2$ .

by P143. and the def. of  $W_2$ .  $\sqcup$

Such a surface has, we have seen in Section 6 of