

First, we want to show that $p_i' \in h_i \cap h_j'$,
for simplicity, let $i=1$ and $j=2$.

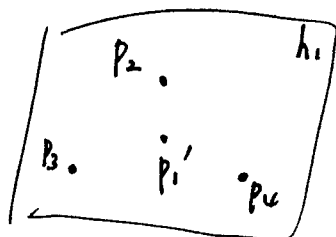
Since p_i' is the focus of the pencil $\tilde{\Phi}(X_{h_i}) = \tilde{\Phi}^{-1}(\tilde{\Phi}(\sigma(h_i)) \cap H)$
of lines of X lying in h_i , $p_i' \in h_i$.

So to show $p_i' \in h_i \cap h_2'$, it remains to show
that $p_i' \in h_2'$. To do this, what is h_2' ?

$$G(2,4) \xrightarrow{\tilde{\Phi}} \mathbb{P}^5 \cup G$$

$$\Rightarrow (*) : \tilde{\Phi}^{-1}(\tilde{\Phi}(\sigma(p_2)) \cap H) \ni l \Leftrightarrow l \ni p_2 \text{ and } l \subset h_2'$$

Consider the line $\overline{p_i' p_2}$.



by the construction.

$$\Rightarrow \text{Clearly } \overline{p_i' p_2} \subset h_1 \text{ and } \overline{p_i' p_2} \ni p_i'$$

$$\Rightarrow \overline{p_i' p_2} \in \tilde{\Phi}^{-1}(\tilde{\Phi}(\sigma(h_1)) \cap H)$$

$$\Rightarrow \tilde{\Phi}(\overline{p_i' p_2}) \in H, \text{ and } \overline{p_i' p_2} \ni p_2 \Rightarrow$$

$$\tilde{\Phi}(\overline{p_i' p_2}) \in \tilde{\Phi}(\sigma(p_2)) \Rightarrow \tilde{\Phi}(\overline{p_i' p_2}) \in \tilde{\Phi}(\sigma(p_2)) \cap H$$

$$\Rightarrow \overline{p_i' p_2} \in \tilde{\Phi}^{-1}(\tilde{\Phi}(\sigma(p_2)) \cap H) \Rightarrow \overline{p_i' p_2} \subset h_2' \text{ by } (*)$$

$$\Rightarrow p_i' \in h_2' //$$

The claim that $h_1 \cap h_2'$ is a line is wrong, I think.

Fix p_2 , and let h_2' be the plane of the