

vertices p_0, p_{ij}, p_{jk} and p_{ik} are hyperplanes $h \in R^*$.

$$\begin{aligned} \overline{h} &= \overline{p_{ij}, p_{jk}, p_{ik}} \supset \overline{p_{ij}, p_{jk}} \cup \overline{p_{ij}, p_{ik}} = \overline{p_{ij}, r(p_{jk})} \cup \\ &\quad \overline{p_{ij}, r(p_{ik})} = \overline{p_{ij}, r(p_{jk}), r(p_{ik})}. \\ \Rightarrow h &\in R^* \quad \text{by } P774 \sim P775. \end{aligned}$$

□

Such a tetrahedron will be called special; corresponding to a special tetrahedron we have a hyperplane section of Σ consisting of eight lines forming the configuration of Figure 19.

□ Such a tetrahedron means a tetrahedron with vertices in R or a tetrahedron with faces in R . By duality, if $h_1, h_2, h_3 \in R^*$, then $h_1 \cap h_2 \cap h_3 \in R$.

Let T be special with $p_1, p_2, p_3, p_4 \in R$.
 \Rightarrow By going through the process above, we have a hyperplane section of Σ ----

□

Indeed, since we have one special tetrahedron passing through p_0 for every choice of three lines L_i, L_j, L_k out of the six $\{L_i\}$, every line X_p (and likewise every line X_h) on Σ lies on 20 such hyperplanes.