

$$\mathbb{P}_k^2 = \mathbb{P}^2 \cup \mathbb{P}_1 \cup \dots \cup \mathbb{P}_k$$

$$\left(\mathbb{P}_k^2\right)_{\text{Kahler}} = \mathbb{R}_{>}^{1+k} \ni \overline{\mathbb{P}^2} : \overline{\mathbb{P}_1} \dots : \overline{\mathbb{P}_k}$$