

$$\begin{aligned} & \mathbb{H}, \mathbb{H}_i, \mathbb{H}_j \ni \mu_0, \quad \mathbb{H}, \mathbb{H}_j, \mathbb{H}_{ij} \ni \mu_i, \quad \mathbb{H}, \mathbb{H}_j, \mathbb{H}_{ij} \ni \mu_j \\ & \mathbb{H}_i, \mathbb{H}_j, \mathbb{H}_{ij} \ni \mu_{ij} \end{aligned}$$

$$\Rightarrow \mathbb{H} + \mu_0, \quad \mathbb{H}_j + \mu_i, \quad \mathbb{H}_k + \mu_i \ni \mu_0 \dots \text{etc.}$$

Note that $\mathbb{H} \cap \mathbb{H}_i \cap \mathbb{H}_j$ has no half-lattice point other than μ_0 . \square

The corresponding elements of the linear series $|\pi^* \mathcal{H} - \sum E_i|$ on \tilde{A} thus all consist of four of the curves $\tilde{\mathbb{H}}_i, \tilde{\mathbb{H}}_j$ and four of the exceptional divisors E_i taken with multiplicity 2; and the corresponding hyperplane sections of $\Sigma \subset \mathbb{P}^5$ consist of eight lines forming the configuration of Figure 19.

For example,

$$\tilde{\alpha}_{ij} = \tilde{\mathbb{H}} \cup \tilde{\mathbb{H}}_i \cup \tilde{\mathbb{H}}_j \cup \tilde{\mathbb{H}}_{ij} + 2E_0 + 2E_i + 2E_j + 2E_{ij}$$

$$\text{where } E_0 = \pi^{-1}(\mu_0), \quad E_i = \pi^{-1}(\mu_i), \quad E_j = \pi^{-1}(\mu_j)$$

$$E_{ij} = \pi^{-1}(\mu_{ij}), \quad \pi: \tilde{A} \rightarrow A.$$

$$\Rightarrow \text{Let } \rho(\tilde{\mathbb{H}}) = X_{h_1}, \quad \rho(\tilde{\mathbb{H}}_i) = X_{h_2}, \quad \rho(\tilde{\mathbb{H}}_j) = X_{h_3}$$

$$\text{and } \rho(\tilde{\mathbb{H}}_{ij}) = X_{h_4} \quad \text{Let } \rho(E_0) = X_{p_1}, \quad \rho(E_i) = X_{p_2}$$

$$\rho(E_j) = X_{p_3} \quad \text{and} \quad \rho(E_{ij}) = X_{p_4}.$$

$$\Rightarrow \rho(\tilde{\alpha}_{ij}) = H \cap \Sigma = \left(\bigcup_{i=1}^4 X_{h_i} \right) \cup \left(\bigcup_{i=1}^4 X_{p_i} \right)$$

See p967 ~ p968 note. \square

These, then, are the 32 lines and 80 hyperplanes of the $(32_2, 80_3)$ configuration on Σ .