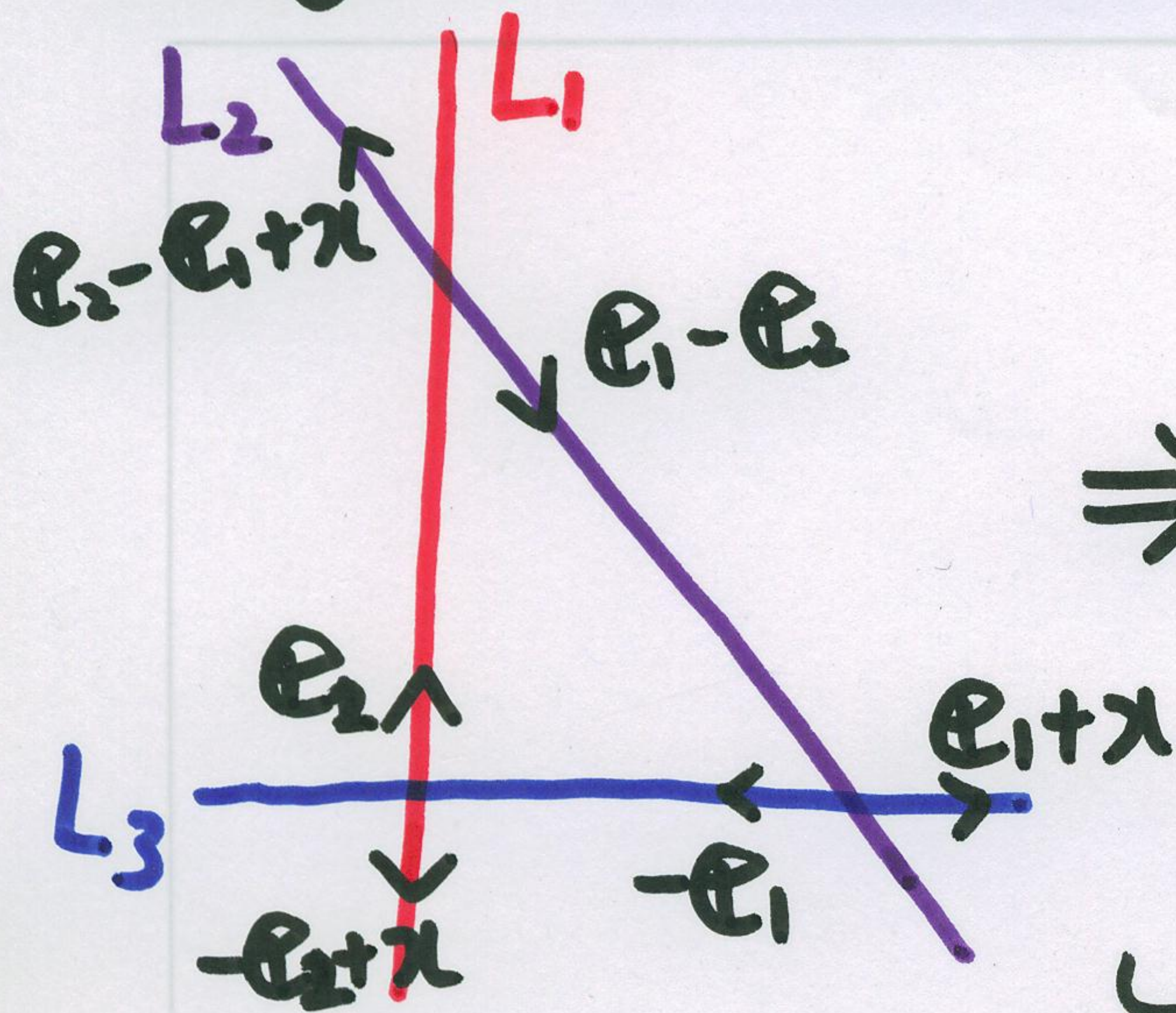


E.g. 1. Generators



$$H_1 = \downarrow, \bar{H}_1 = \triangle$$

$$\Rightarrow H_2 = \swarrow, \bar{H}_2 = \nwarrow$$

$$H_3 = \top, \bar{H}_3 = \perp$$

hyper facets + λ

2. Relations

$$\textcircled{1} H_i + \bar{H}_i = -\lambda$$

$$\downarrow + \triangle = -\lambda, \swarrow + \nwarrow = -\lambda, \top + \perp = -\lambda$$

$$\textcircled{2} \prod_{H \in \mathcal{K}} H : \cap \mathcal{K} = \emptyset \quad (\mathcal{K} \subset \{H_1, H_2, H_3, \bar{H}_1, \bar{H}_2, \bar{H}_3\})$$

$$\downarrow \times \swarrow \times \top \quad (\downarrow \cap \swarrow \cap \top = \emptyset)$$

3. $H_T^*(\Gamma)$

$$H_T^*(\triangle) \cong \mathbb{Z}[\lambda, \downarrow, \swarrow, \top] / \langle \downarrow \times \swarrow \times \top \rangle$$

$$\cong H_{T^2 \times S^1}^*(T^*CP^2)$$