$$H_1\left(\mathbb{C}\llcorner n\right) = H_*\left(\mathbb{C}\llcorner n\right) \asymp \mathbb{Z}^n \text{ mod space}$$

$$H^1\left(\Sigma{:}\mathbb{Z}\right) \asymp \mathbb{Z}^{2g} \text{ phase space}$$

$$\mathcal{M}_n^0 = \mathcal{M}^0_{0:1:\infty:n-3} = \overbrace{\mathbb{C}\llcorner 0{:}1}^{\times}{}^{n-3} = \frac{z_4{:}\cdots{:}z_n \in \overbrace{\mathbb{C}\llcorner 0{:}1}^{n-3}}{\bigwedge\limits_{i<j} z_i \neq z_j}$$

$$= \frac{z_4{:}\cdots{:}z_n \in \mathbb{C}^{n-3}}{\bigwedge\limits_{i<j} z_i \neq z_j{:} \quad \bigwedge\limits_{k} z_k \neq 0{:}z_k \neq 1} = \frac{z_4{:}\cdots{:}z_n \in \mathbb{C}^{n-3}}{\prod\limits_{i<j}\left(z_i - z_j\right)\prod\limits_{k} z_k\left(1 - z_k\right) \neq 0}$$

$$\mathsf{C}|n \ltimes \overbrace{\mathbb{C}\llcorner 0{:}1}^{\times}{}^{n-3} \xrightarrow[\text{act}]{} \overbrace{\mathbb{C}\llcorner 0{:}1}^{\times}{}^{n-3}$$