

$$\mathbb{C}_x^k H_{\mathbb{Z}}^{\sharp} = (t^2 - 1)^k$$

$$\mathbb{C}_{\Sigma}^n = \bigcup_{\sigma}^{\Sigma} \mathbb{C}_x^{n-\sigma}$$

$$\mathbb{C}_{\Sigma}^n H_{\mathbb{Z}}^{\sharp} = \sum_{\sigma}^{\Sigma} \mathbb{C}_x^{n-\sigma} H_{\mathbb{Z}}^{\sharp} = \sum_{\sigma}^{\Sigma} 2^{\mathbb{Z}^{n-\sigma}}$$