3. Definition

hypertorus graph $\mathcal{G}=(\Gamma,\Theta,\alpha)$

$\overset{\text{def}}{\Longleftrightarrow}$ Γ : 2n-valent (possible have "leg")

$$\alpha : E_p^\Gamma \longrightarrow H^2_{T^n\times S^1}(pt)\cong t^*\oplus\mathbb{Z}=\langle\lambda\rangle$$

$$E_p^\Gamma=\{e_{1,1},\cdots,e_{n,1},e_{1,-1},\cdots,e_{n,-1}\}$$

$$\alpha(e_{i,1})+\alpha(e_{i,-1})=\chi$$

(E.g. GKM-graphs by cotangent bdl of toric
hyper toric (∋ toric hyper kähler)

Torus graphs with leg