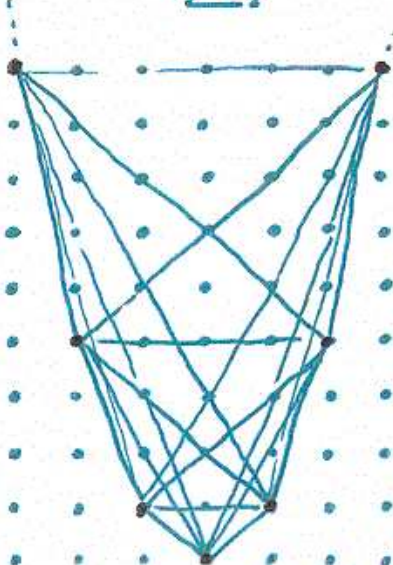


The equivariant 1-skeleton of G/p is encoded by the GKM graph $\Gamma \hookrightarrow \mathfrak{t}^*$.

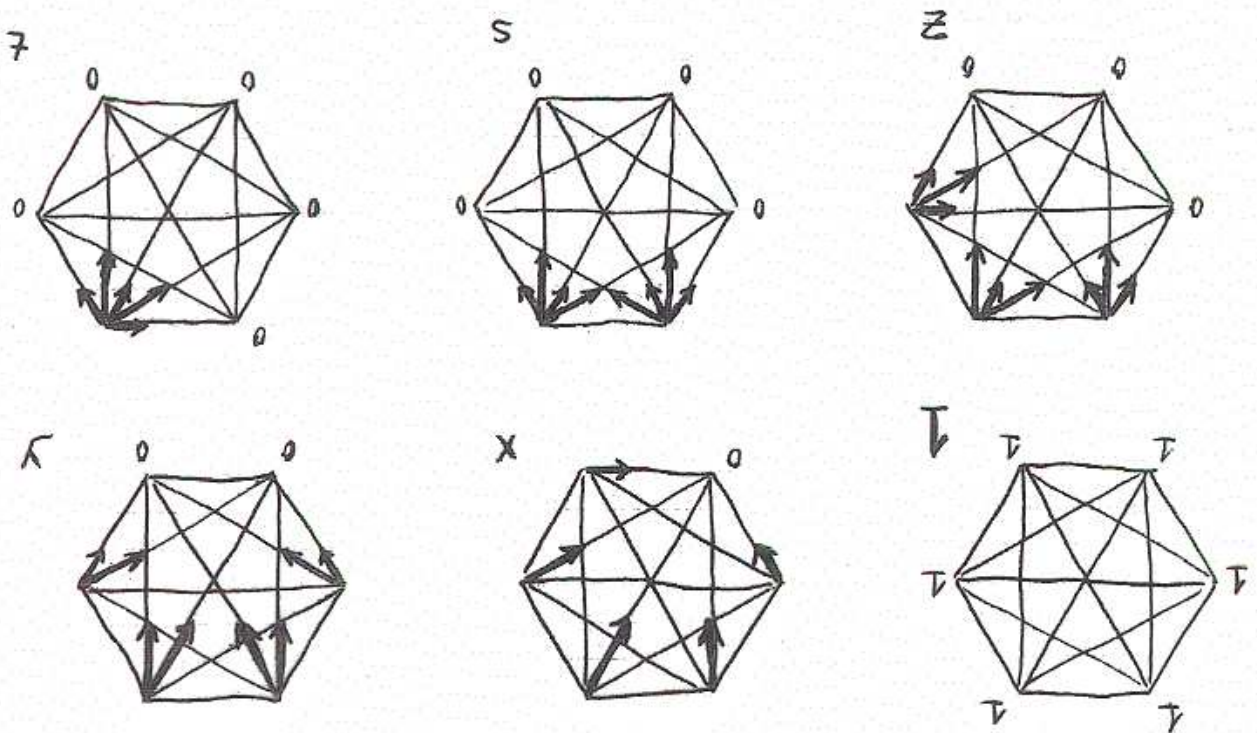
$$\text{Vertices} = W_G/W_P$$

$$\text{Edges} = ([w], [rw]) \quad r\text{-reflection}$$

Some rank 2 examples:

G	P	G/P	$\Gamma \hookrightarrow \mathfrak{t}^* \simeq \mathbb{R}^2$
$SL(3)$	$\begin{pmatrix} * & * & * \\ * & * & * \\ 0 & 0 & * \end{pmatrix}$	$\mathbb{CP}^2$	
$SL(3)$	$\begin{pmatrix} * & * & * \\ * & * & * \\ 0 & 0 & * \end{pmatrix}$	$\text{Flags}(\mathbb{C}^3)$	
$Spin(5)_\mathbb{C}$		Isotropic lines in $\mathbb{C}^5$	
$Spin(5)_\mathbb{C}$	$B = \text{star graph}$	Isotropic flags in $\mathbb{C}^5$	
G_2	$P_{\text{long}} = \text{star graph with 7 rays}$		
$LSL(2)$	loops that extend over $\mathbb{C}^x$	$\Omega SU(2)$	

(i) The 6 generators of $E_*^+(G_2/p_{\text{long}})$ for $E_*^+ = H\mathbb{Z}_*^+, K_*^+$ or MU_*^+



A bouquet of arrows $\{\beta_i\}$ represents the class $\prod e(\beta_i) e E_*^+$

If $E_*^+ = H\mathbb{Z}_*^+$, we let $a = e(\rightarrow)$, $b = e(\nwarrow)$ and compute

$$\begin{aligned} X(x+a) &= y \\ X(x+a)(x+b) &= 2z \\ X(x+a)(x+b)(x+2a+b) &= 2s \\ X(x+a)(x+b)(x+2a+b)(x+2b+a) &= 2t \end{aligned}$$

If we want ordinary (non-equivariant) homology, we let $a=b=0$

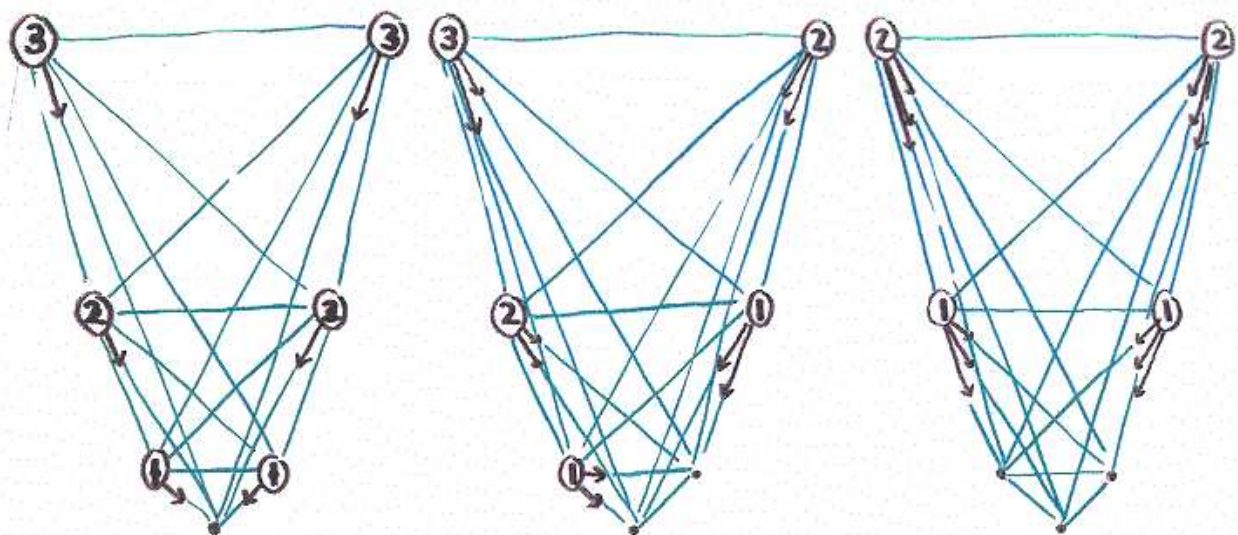
$$x^2 = y \quad x^3 = 2z \quad x^4 = 2s \quad x^5 = 2t \quad x^6 = 0$$

For $K_T^*(\Omega SU(2))$ we let

$$p_n(x_1, \dots, x_k) = \left[\prod_{i=1}^k (1 - x_i) \right] \cdot \sum_{a_1 + \dots + a_k = 0}^{n-1} x_1^{a_1} \cdot \dots \cdot x_k^{a_k}$$

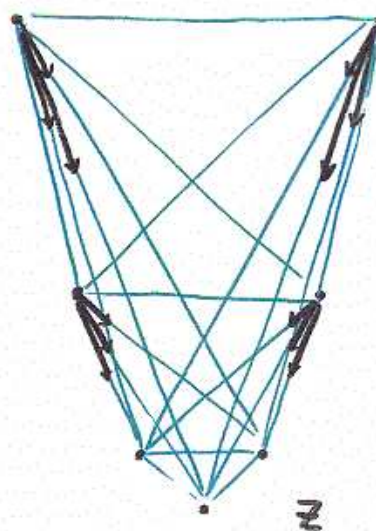
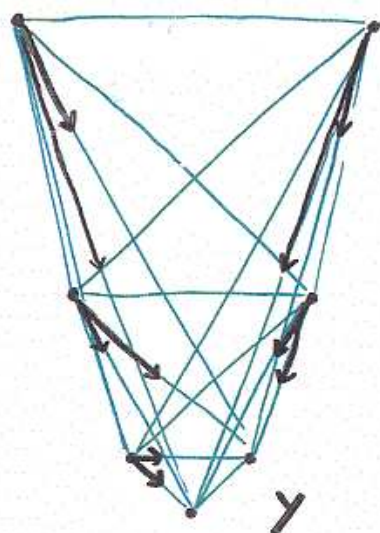
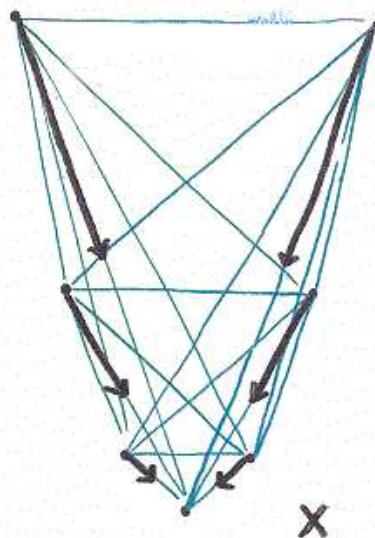
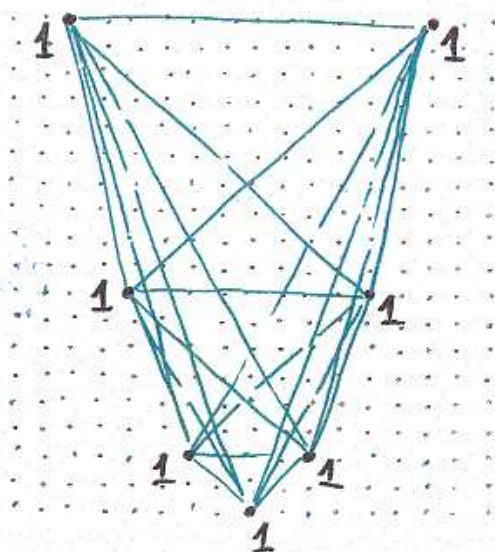
and write $\begin{array}{c} (n) \\ \swarrow \quad \searrow \\ \alpha_1 \quad \alpha_2 \quad \dots \quad \alpha_k \end{array}$ for $p_n(\alpha_1, \dots, \alpha_k)$,

where the characters α_i are understood as elements of $K_T^*(pt)$



Here are the first few $K_T^*(pt)$ -module generators of $K_T^*(\Omega SU(2))$ represented via their restriction to $\Omega SU(2)^T$. (we omitted 1)

The first few generators of $H_T^*(\Omega SU(2))$ represented via their restriction to $\Omega SU(2)^T$



A bouquet of arrows represents the product of the Euler classes of the corresponding characters of T .