$$K_G^*(\cdot) = R(G)$$

$$R(G) \xrightarrow{\text{char}} \mathcal{C}(G)^G \text{ conj-inv}$$

$$R(T) \xrightarrow{\text{char}} \mathcal{C}(T)^W \text{ Weyl-inv}$$

$$R(H) \underset{\cong}{\longrightarrow} K_G(G/H)$$

$$V \in R(H) \Rightarrow G \times_H V \in K_G(G/H)$$

$$W \in K_G(G/H) \Rightarrow \text{ fibre } W_H \in R(H)$$

Borel-Weil-Bott

$$G/T \xrightarrow{\pi} T/T \Rightarrow R(T) = K_G(G/T) \xrightarrow{\pi_*} K_G(T/T) = R(G)$$

$$V_\lambda \boxtimes \widetilde{\mathcal{S}_+ - \mathcal{S}_-} = \sum_w^W \underline{w} G_{w(\lambda+\delta)-\delta} \in R(T)$$