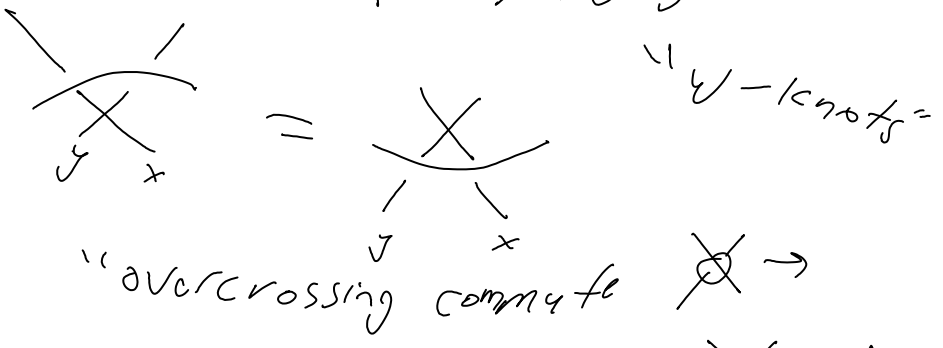
Conversation with Kamnitzer

October-20-08
2:45 PM

$G \times G \longrightarrow G$

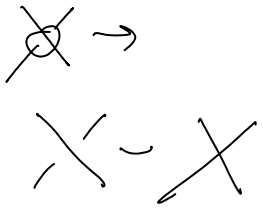
$$\begin{array}{ccc} \mathcal{O}(G\times G) & \longleftarrow & \mathcal{O}(G) \\ \| & & \cup \\ \mathcal{O}(G)\otimes\mathcal{O}(G) & & \mathcal{O}(G)^G \\ \cup & & \swarrow \\ (\mathcal{O}(G)\otimes\mathcal{O}(G))^G & & \end{array}$$

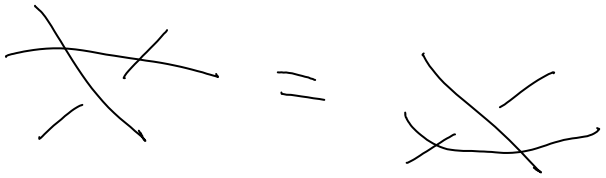
$$\mathbb{C}[G]^G \otimes \mathbb{C}[G]^G \to \mathbb{C}[G]^G$$



"V-knots"

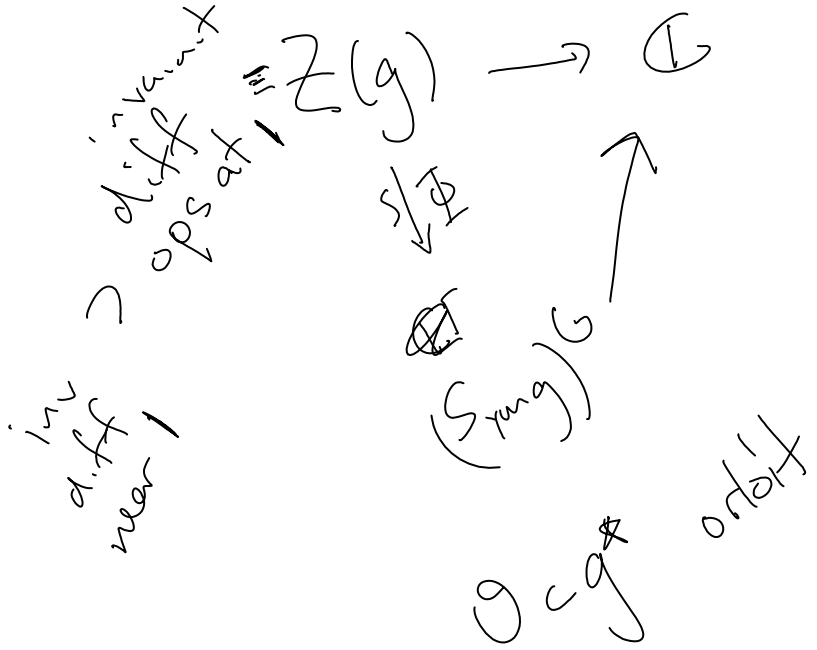
"overcrossing commute"





W irrep of G

$Z(g) \to \mathbb{C}$



$$g\mathcal{O} = gg^{-1}\mathcal{O}g = \mathcal{O}g$$

The irreps of G are the algebra homomorphisms

$$Conv(G)^G \longrightarrow \mathbb{C}$$

The co-adjoint orbits in g^* are the algebra homomorphisms

$$Conv(g)^G \longrightarrow \mathbb{C}$$