

Def. Define a pairing

$$(\sigma, \beta) \mapsto \sigma \#_T \beta$$

on $C_{\mathbb{R}}(T)$ via the following comm. diagram:

$$\begin{array}{ccc}
 \tilde{S}_2(T) & \xleftrightarrow{\tilde{S}_f} & C_{\mathbb{R}}(T)^* \\
 \uparrow \tilde{S} \tilde{F}_1 G^* & & \uparrow \sigma \#_T \beta \\
 \tilde{S}_2(T)^* & \xleftrightarrow{S_f} & C_{\mathbb{R}}(T)
 \end{array}$$

The