

$$\mathbb{I}_{\mathbb{T}^*}^\sharp = \frac{\bar{\lambda}}{\lambda \in \mathbb{I}_\mathbb{T}^\sharp}$$

$$\bar{\lambda}e - \mathbb{T}^* = (\lambda e - \mathbb{T})^* \in \mathbb{I}_C \Leftrightarrow (\lambda e - \mathbb{T}) \in \mathbb{I}_C^* = \mathbb{I}_C$$

$$\mathbb{I}^0 \ni \mathbb{I} \Rightarrow \mathbb{I}_\mathbb{T}^\sharp \subset \mathbb{C}^0 = \mathbb{T}$$

$$\mathbb{T}\mathbb{T}^* = e = \mathbb{T}^*\mathbb{T} \Rightarrow \overline{\mathbb{T}}^2 = \overline{\mathbb{T}\mathbb{T}^*} = \overline{e} = 1 \Rightarrow 1 = \overline{\mathbb{T}} \geqslant \mathcal{Y}^{\overline{\mathbb{T}}^\sharp} \Rightarrow \mathbb{I}_\mathbb{T}^\sharp \subset \overline{\mathbb{C}}^1$$

$$\mathbb{I} \in \mathbb{I}_C \Rightarrow \mathbb{I}_\mathbb{T}^\sharp \subset \mathbb{C}_C \xrightarrow[\text{hol}]{{}()^{-1}} \mathbb{C} \mathbb{T}^1 = \mathbb{T}^* \Rightarrow \left(\mathbb{I}_\mathbb{T}^\sharp\right)^{-1} = \mathbb{I}_{\mathbb{T}^1}^\sharp = \mathbb{I}_{\mathbb{T}^*}^\sharp \underset{\mathbb{T}^* \text{ unitar}}{\subset} \overline{\mathbb{C}}^1 \Rightarrow \mathbb{I}_\mathbb{T}^\sharp \subset \mathbb{T}$$

$$\mathbb{I}^0 \ni \mathbb{I} = \mathbb{T}^* \Rightarrow \mathbb{I}_\mathbb{T}^\sharp \subset \mathbb{R}$$

$$\mathbb{I} \text{ unit} \Rightarrow \bigwedge_t^{\mathbb{R}} i t \mathbb{I} \exp \in \mathbb{I}^0 \Rightarrow i t \mathbb{I}_\mathbb{T}^\sharp \exp = \mathbb{I}_{i t \mathbb{I} \exp}^\sharp \subset \mathbb{R}$$

$$\mathbb{I} \text{ not unit} \Rightarrow \mathbb{I}_\mathbb{T}^\sharp \subset (\mathbb{I} \times \mathbb{C})_{\mathbb{T}:0}^\sharp \subset \mathbb{R}$$

$$\mathbb{N}\mathbb{C} \ni \dot{\mathbb{I}} \underset{\text{unit*alg}}{\overset{\text{abg}}{\exists}} \mathbb{I} \ni \mathbb{I} \Rightarrow \mathbb{I}_\mathbb{T}^\sharp = \dot{\mathbb{I}}_\mathbb{T}^\sharp$$

$$\dot{\mathbb{I}} \xleftarrow[\text{* hom}]{i} \mathbb{I} \Rightarrow \dot{\mathbb{I}}_\mathbb{T}^\sharp \subset \mathbb{I}_\mathbb{T}^\sharp$$

$$\mathbb{L}_C = \mathbb{L}_C \cap \mathbb{L}$$

\subset treu

$$\begin{aligned}
 \gamma \in \mathbb{L}_C \cap \mathbb{L} &\Rightarrow \bigvee^{\mathbb{L}} \gamma \gamma = e = \gamma \gamma \Rightarrow \underbrace{\gamma \gamma^*}_{\gamma} \underbrace{\gamma^* \gamma}_{\gamma} = \gamma \underbrace{\gamma \gamma^*}_{\gamma} \gamma = \gamma e \gamma = \gamma \gamma = e \\
 &\Rightarrow 0 \notin \mathbb{L}_{\gamma \gamma^*}^{\#} = \left(\gamma \gamma^* \mathbb{L} \right)^{\#}_{\gamma \gamma^*} = \gamma \gamma^* \mathbb{L}_{\gamma \gamma^*}^{\#} = \mathbb{L}_{\gamma \gamma^*}^{\#} \Rightarrow \gamma \gamma^* \in \mathbb{L}_C \\
 &\xrightarrow{\text{eind}} \gamma^* \gamma \in \mathbb{L} \Rightarrow \gamma = e^* \gamma = \underbrace{\gamma \gamma^*}_{\gamma}^* \gamma = \gamma^* \underbrace{\gamma \gamma}_{\gamma} \in \mathbb{L} \Rightarrow \gamma \in \mathbb{L}_C
 \end{aligned}$$