

$$\Rightarrow (\mathbb{L}\mathbb{T})^* = \overline{\mathbb{L}\mathbb{T} + i\mathbb{L}\mathbb{T}}^* = \mathbb{L}\mathbb{T} - i\mathbb{L}\mathbb{T} = \overline{\mathbb{L}\mathbb{T} - i\mathbb{L}\mathbb{T}} = \mathbb{L}\mathbb{T}^* \Rightarrow \varrho * \text{ hom}$$

$$\infty \overline{\mathbb{T}}^2 = \Upsilon[\mathbb{L}\mathbb{T}] \hat{\mathbb{T}}^* \hat{\mathbb{T}} = \Upsilon \mathbb{L}\mathbb{T} \hat{\mathbb{T}}^* \mathbb{T} = \Upsilon \mathbb{L}\mathbb{T} \hat{\mathbb{T}}^* \mathbb{T} = |\mathbb{T}^* \mathbb{T}|_\sigma = \overline{\mathbb{T}^* \mathbb{T}} = \overline{\mathbb{T}}^2 \Rightarrow \varrho \text{ monometric}$$

$$\mathbb{L} \text{ unit} \Rightarrow \text{voll } e\mathbb{L} \xrightarrow{\text{abg}} \mathbb{L} \triangleleft_0 \mathbb{C} \xrightarrow{\text{SW}} e\mathbb{L} = \mathbb{L} \triangleleft_0 \mathbb{C}$$

$$\begin{array}{ccc} \mathbb{L} & \xrightarrow{a} & \mathbb{L} \times \mathbb{C} \\ \downarrow b & & \downarrow s \\ \mathbb{L} \triangleleft_\varepsilon \mathbb{C} & \xrightarrow{q} & \mathbb{L} \times \mathbb{C} \triangleleft_0 \mathbb{C} = \mathbb{L} \triangleleft_\varepsilon \mathbb{C} \times \mathbb{C} \end{array}$$

$$\mathbb{L} \in \mathbb{N} \triangleleft_0 \mathbb{C} \text{ voll abel non-unit } C^* \text{ alg} \Rightarrow \mathbb{L} \times \mathbb{C} \in \mathbb{N} \triangleleft_0 \mathbb{C} \text{ voll abel unit } C^* \text{ alg}$$

$$\text{non-unit } \mathbb{L} \ni \mathbb{T} \Rightarrow \hat{\mathbb{T}} \in \mathbb{L} \triangleleft_\varepsilon \mathbb{C}$$

$$\bigwedge_{\varepsilon > 0} \mathbb{L} \times \mathbb{C} \supset \frac{\mathbb{L} \in \mathbb{L} \times \mathbb{C}}{\|\mathbb{T}:0\| \geq \varepsilon} \not\cong_\infty \Rightarrow K := \left\{ \frac{\mathbb{L} \in \mathbb{L}}{\|\mathbb{T}\| \geq \varepsilon} \right\} \text{ cpt}$$

$$\bigwedge_{\mathbb{L} \in \mathbb{L} \setminus K} \|\mathbb{L}\mathbb{T}\| = \|\mathbb{T}\mathbb{T}\| < \varepsilon$$

$$\text{non-unit } \mathbb{L} \ni \mathbb{T} \Rightarrow \mathbb{L} \hat{\mathbb{T}} \cup 0 = \mathbb{L} | \mathbb{T} \cup 0$$

$$\mathfrak{h} \in \mathbb{N} \triangleleft_0 \mathbb{K} \text{ lic cpt non-cpt } \mathfrak{h} \triangleleft_\infty \mathbb{K} \supset \mathbb{L} \text{ hull} \Leftrightarrow (1) \bigwedge_{\mathfrak{h} \neq \mathfrak{h}'} \bigvee_{\gamma \in \mathbb{L}} \mathfrak{h}\gamma \neq \mathfrak{h}'\gamma \quad (2) \bigwedge_{\mathfrak{h} \in \mathfrak{h}} \bigvee_{\gamma \in \mathbb{L}} \mathfrak{h}\gamma \neq 0$$

$$\mathbb{L} \times \mathbb{K} \subset \underbrace{\mathfrak{h} \triangleleft_\infty \mathbb{K} \times \mathbb{K}} = \mathfrak{h} \cup \infty \triangleleft_0 \mathbb{K}$$

$$\mathfrak{h} \neq \mathfrak{h}' \text{ in } \mathfrak{h} \cup \infty$$

$$\begin{cases} \mathfrak{h} \in \mathfrak{h} & \Rightarrow \bigvee_{\gamma \in \mathbb{L}} \mathfrak{h}\gamma \neq \mathfrak{h}'\gamma \Rightarrow (\gamma:0) \in \mathbb{L} \times \mathbb{K} \wedge \widehat{\mathfrak{h}\gamma:0} = \mathfrak{h}\gamma \neq \mathfrak{h}'\gamma = \widehat{\mathfrak{h}'\gamma:0} \\ \mathfrak{h} = \infty & \Rightarrow \bigvee_{\gamma \in \mathbb{L}} \mathfrak{h}\gamma \neq 0 \Rightarrow \widehat{\mathfrak{h}\gamma:0} = \mathfrak{h}\gamma \neq 0 = \widehat{\infty\gamma:0} \end{cases}$$

$$\begin{aligned} &\Rightarrow \mathbb{1} \times \mathbb{K} \overset{\mathfrak{h} \cup \infty}{\text{treu}} \xrightarrow{\text{SW}} \mathbb{1} \times \mathbb{K} \underset{\text{hull}}{\subseteq} \left(\overset{\mathfrak{h}}{\mathbb{1}} \underset{\omega}{\Delta} \mathbb{K} \right) \times \mathbb{K} \\ \Rightarrow \bigwedge \gamma \in \overset{\mathfrak{h}}{\mathbb{1}} \underset{\omega}{\Delta} \mathbb{K} \vee \mathbb{1} \times \mathbb{K} \ni (\mathbb{1}_n : a_n) \underset{\mathfrak{h} \cup \infty}{\overset{\text{glm}}{\rightsquigarrow}} (\gamma : 0) \Rightarrow a_n = \overset{\infty}{\widehat{\mathbb{1}_n : a_n}} \rightsquigarrow \overset{\infty}{\widehat{\gamma : 0}} = 0 \\ \bigwedge_{\mathfrak{h} \in \bar{\mathfrak{h}}} \overset{\mathfrak{h}}{\mathbb{1}} \mathbb{1}_n + \begin{bmatrix} a_n \\ 2 \end{bmatrix} (\rightsquigarrow 0) = \overset{\mathfrak{h}}{\widehat{\mathbb{1}_n : a_n}} \rightsquigarrow \overset{\mathfrak{h}}{\widehat{\gamma : 0}} = \overset{\mathfrak{h}}{\gamma} \Rightarrow \mathbb{1}_n \underset{\mathfrak{h}}{\overset{\text{glm}}{\rightsquigarrow}} \gamma \end{aligned}$$

$\mathbb{1}$ non-unit abel C^* alg $\Rightarrow \varrho$ monometric C^* hom $\Rightarrow \varrho \mathbb{1}$ voll $\Rightarrow \varrho \mathbb{1} \overset{\text{abg}}{\subseteq} \overset{\mathfrak{h}}{\mathbb{1}} \underset{\omega}{\Delta} \mathbb{C}$

$$\bigwedge_{\mathbb{L} \in \overset{\mathfrak{h}}{\mathbb{1}}} \bigvee_{\mathbb{T} \in \mathbb{1}} \mathbb{L} \mathbb{T} \neq 0 \Rightarrow \varrho \mathbb{1} \overset{\mathfrak{h} \cup 0}{\text{treu}} \xrightarrow{\text{SW}} \varrho \mathbb{1} = \overset{\mathfrak{h}}{\mathbb{1}} \underset{\omega}{\Delta} \mathbb{C}$$

$$\mathbb{1} \text{ non unit} \Rightarrow \text{voll } \varrho \mathbb{1} \overset{\text{abg}}{\subseteq} \overset{\mathfrak{h}}{\mathbb{1}} \underset{\omega}{\Delta} \mathbb{C} \xrightarrow{\text{SW}} \varrho \mathbb{1} = \overset{\mathfrak{h}}{\mathbb{1}} \underset{\omega}{\Delta} \mathbb{C}$$