

$$\text{HilbR } \mathbb{1} \in \frac{2}{\nabla_0} \mathbb{K}$$

$$\bar{\mathbb{1}} \in \mathbb{K}^2 \Delta_0 \text{ coHilb}$$

$$\begin{array}{c} \mathbb{K} \nabla_0 \mathbb{1} \\ \downarrow \asymp \\ \bar{\mathbb{1}} \end{array}$$

$$\mathbb{K} \nabla_0 \mathbb{1} \ni L \cap \underbrace{\ker L}_{\perp} \underbrace{\ker L}_{\perp} \xrightarrow{*} \bar{\mathbb{1}}$$

$$\mathbb{K} \xleftarrow[\text{lin stet}]{L} \mathbb{1} \Rightarrow \ker L \subset \mathbb{1} \supset \ker L^\perp$$

$$\begin{array}{ccccc} \mathbb{K} = L \mathbb{1} & \xleftarrow[\asymp]{\tilde{\pi} j = L|\ker L} & \ker L^\perp & & \\ \uparrow & & \nearrow \text{isomet} & & \downarrow \\ \mathbb{1} \cap \ker L & \xleftarrow{\pi} & \mathbb{1} & & \end{array}$$

$$\Rightarrow \dim_{\mathbb{K}} \ker L = 1 \Rightarrow \ker L = \underbrace{\ker L}_{\perp} \mathbb{K}$$

$$\ker L \ni \underbrace{\ker L}_{\perp}$$

$$\underbrace{\ker L}_{\perp} \times \underbrace{\ker L}_{\perp} = 1$$

$$L = \underbrace{\ker L}_{\perp} \overset{*}{\overbrace{L_{\ker L}}} \star = L_{\ker L} \overset{\perp}{\overbrace{\ker L}} \star$$

$$\begin{aligned} 1 &= \underbrace{\ker L}_{\perp} \times \underbrace{\ker L}_{\perp} = \underbrace{\ker L}_{\perp} \times \underbrace{\ker L}_{\perp} \mathbb{K} \ni \underbrace{1}_{\in \ker L} + \underbrace{\ker L}_{\perp} \alpha \\ \Rightarrow L_{\ker L} \underbrace{\ker L \star 1 + \ker L \alpha}_{\perp} &= L_{\ker L} \overset{\perp}{\overbrace{\ker L \star 1}}_2 (= 0) + \underbrace{\ker L \star \ker L}_{\perp} \overset{\perp}{\overbrace{\alpha}}_2 (= 1) \alpha \\ &= L_{\ker L} \alpha = \underbrace{L 1}_2 (= 0) + L_{\ker L} \alpha = L \overset{\perp}{\overbrace{1 + \ker L}} \alpha \end{aligned}$$