$$\sum_{\Bbbk \in \mathbb{1}^{\sharp}_{+}} \mathbb{1}_{\Bbbk} \bowtie \mathbb{1}^{\sharp}_{\Bbbk} \xleftarrow[\text{monomet}]{\alpha} \mathbb{1}$$

OE $\mathbb{1}$ unit

$$\bigwedge_{0 \neq 1 = 1^{*} \in \mathbb{1}} \bigvee^{\text{cycl rep}}_{\alpha_1} 1 \notin \text{ Ker } \alpha_1$$

$$\mathbb{C}^{-} 1 = {}^{\hbar}\triangle_{0} \mathbb{C} \Rightarrow \bigvee_{\mathfrak{h} \in \hbar} {}^{\mathfrak{h}} 1 \neq 0 \Rightarrow \bigvee^{S(\mathbb{C}^{-} 1)}_{\Bbbk_1 = \delta_{\mathfrak{h}}} \Bbbk_1 1 = {}^{\mathfrak{h}} 1 \neq 0$$

$$\overline{\Bbbk_1 | \mathbb{R}^{-} 1} = \Bbbk_1 e = 1 \underset{\text{HB}}{\Rightarrow} \bigvee \mathbb{R}^{-} 1 \sqsubset \mathbb{1}^{\varphi} \xrightarrow[\text{lin}]{\tilde{\Bbbk}_1} \mathbb{R} \begin{cases} \tilde{\Bbbk}_1 & = 1 \\ \tilde{\Bbbk}_1 | \mathbb{R}^{-} 1 & = \Bbbk_1 \end{cases}$$

$$\mathbb{T} \in \mathbb{1}_{+} \curvearrowright \overline{\mathbb{T}} \leqslant 1 \Rightarrow \overline{e - \mathbb{T}} \leqslant 1 \Rightarrow \overline{1 - \tilde{\Bbbk}_1 \mathbb{T}} = \overline{\tilde{\Bbbk}_1 (e - \mathbb{T})} \leqslant \overline{\tilde{\Bbbk}_1}\, \overline{e - \mathbb{T}} \leqslant 1 \Rightarrow \tilde{\Bbbk}_1 \mathbb{T} \leqslant 0 \Rightarrow \tilde{\Bbbk}_1 \in S(\mathbb{1})$$

$$\underset{\text{GNS}}{\Rightarrow} \bigvee^{\text{cycl rep}}_{\alpha_1} \begin{cases} e_1 \text{ on } \mathbb{1}^{1} \in {}^{2}_{0}\triangle \mathbb{C} \\ \tilde{\Bbbk}_1 \mathbb{T} = e_1 \bowtie \left({}^{\alpha_1} \mathbb{T} e_1 \right) \end{cases}$$

$$\Rightarrow e_1 \bowtie \left({}^{\alpha_1} 1 e_1 \right) = \tilde{\Bbbk}_1 1 = \Bbbk_1 1 \neq 0 \Rightarrow 1 \notin \text{ Ker } \alpha_1$$

$$\alpha = \sum_{0 \neq 1 = 1^{*} \in \mathbb{1}} \alpha_1 \text{ on } \mathbb{1} := \sum_{0 \neq 1 = 1^{*} \in \mathbb{1}} \mathbb{1}^{1}$$

$$\Rightarrow {}^{\alpha}\mathbb{T} = \left({}^{\alpha_1} \mathbb{T} \right) 1 \neq 0$$

$$\overline{{}^{\alpha}\mathbb{T}} = \curlyvee_{0 \neq 1 = 1^{*} \in \mathbb{1}} \overline{{}^{\alpha_1}\mathbb{T}} \leqslant \overline{\mathbb{T}} \Rightarrow {}^{\alpha}\mathbb{T} \in \mho | \mathbb{1} \text{ bes}$$

$$\overline{\alpha} \leqslant 1$$

$$\text{Ker } \alpha = \bigcap_{0 \neq 1 = 1^{*} \in \mathbb{1}} \text{Ker } \alpha_1 \not\ni 1 \underset{*\text{inv}}{\Rightarrow} \text{Ker } \alpha = 0 \Rightarrow \alpha \text{ inj } \Rightarrow \alpha \text{ monometric}$$