$$\mathbb{C}\top \xleftarrow{\quad a \quad} {}^{\urcorner}{}_{\omega}^{\mathbb{I}^{\sharp}} \triangle \mathbb{C}$$

$$ {}^{\urcorner}{}_{\omega}^{\mathbb{I}^{\sharp}} \triangle \mathbb{C} \xrightarrow[\text{hom}]{\daleth \mapsto {}^{\urcorner}\daleth} \mathbb{C}\top$$

$$ {}^{\urcorner}\daleth = \sum_{k}^{\mathbb{N}} \daleth_k \top^{k} \in \mathbb{C}\top \sqsubset \mathbb{I}$$

$$ {}^{\urcorner}\daleth \, {}^{\urcorner}\daleth' = {}^{\urcorner}\widehat{\daleth\daleth'} \text{ Einsetz-hom}$$

$$ {}^{w}\dot{\daleth} = \sum_{0 \leqslant i} \dot{\daleth}_i \, \dot{w}^{i} \Longrightarrow {}^{w}\left(\daleth\daleth'\right) = \sum_{k}^{\mathbb{N}} \dot{w}^{k} \sum_{i+j=k} \daleth_i \, \daleth'_j$$

$$\Longrightarrow {}^{\urcorner}\daleth \, {}^{\urcorner}\daleth' = \sum_{0 \leqslant i} \daleth_i \top^{i} \sum_{0 \leqslant j} \daleth'_j \top^{j} = \sum_{0 \leqslant i:j} \daleth_i \, \daleth'_j \, \top^{i+j} = \sum_{k}^{\mathbb{N}} \top^{k} \sum_{i+j=k} \daleth_i \, \daleth'_j = {}^{\urcorner}\widehat{\daleth\daleth'}$$

$$\text{Ex } {}^{w}\daleth = aw + b \Longrightarrow {}^{\urcorner}\daleth = a\top + be \in \mathbb{I}$$

$$\sigma_{\mathbb{1}}|{}^{\daleth}\text{ɿ} = {}^{\sigma_{\mathbb{1}}|\daleth}\text{ɿ}$$

$$\text{OE } \text{ɿ} \neq \text{ cst } \Rightarrow \bigwedge_{\lambda \in \mathbb{C}}^{n \geqslant 1} \bigvee_{\beta \neq 0} \bigvee_{{}_1\lambda \cdots {}_n\lambda \in \mathbb{C}} \lambda - {}^{w}\text{ɿ} = \beta\left({}_1\lambda - w\right) \cdots \left({}_n\lambda - w\right) \underset{\text{hom}}{\Rightarrow} \lambda e - {}^{\daleth}\text{ɿ} = \beta \underbrace{{}_1\lambda e - \daleth} \cdots \underbrace{{}_n\lambda e - \daleth}$$

$$\subset: \quad \lambda \in \sigma_{\mathbb{1}}|{}^{\daleth}\text{ɿ} \Rightarrow \lambda e - {}^{\daleth}\text{ɿ} \notin \mathbb{1}_{\mathsf{C}} \Rightarrow \bigvee_{1 \leqslant k \leqslant n} {}_k\lambda e - \daleth \notin \mathbb{1}_{\mathsf{C}} \Rightarrow \lambda_k \in \sigma_{\mathbb{1}}|\daleth$$

$$\underset{w = {}_k\lambda}{\Rightarrow} \lambda - {}^{{}_k\lambda}\text{ɿ} = 0 \Rightarrow \lambda = {}^{{}_k\lambda}\text{ɿ} \in {}^{\sigma_{\mathbb{1}}|\daleth}\text{ɿ}$$

$$\supset: \quad \lambda \notin \sigma_{\mathbb{1}}|{}^{\daleth}\text{ɿ} \Rightarrow \bigvee_{1}^{\mathbb{1}} \underbrace{\lambda e - {}^{\daleth}\text{ɿ}}\, 1 = e = 1\left(\lambda e - {}^{\daleth}\text{ɿ}\right)$$

$$\Rightarrow \bigwedge_{1 \leqslant k \leqslant n} e = \beta \prod_i \underbrace{{}_i\lambda e - \daleth}\, 1 = \underbrace{{}_k\lambda e - \daleth} \overbrace{\beta \prod_{i \neq k} \underbrace{{}_i\lambda e - \daleth}\, 1}^{\text{right inv}} = 1\beta \prod_i \underbrace{{}_i\lambda e - \daleth} = \overbrace{1\beta \prod_{i \neq k} \underbrace{{}_i\lambda e - \daleth}}^{\text{left inv}} \underbrace{{}_k\lambda e - \daleth}$$

$$\Rightarrow {}_k\lambda e - \daleth \in \mathbb{1}_{\mathsf{C}} \Rightarrow {}_k\lambda \notin \sigma_{\mathbb{1}}|\daleth \Rightarrow \bigwedge_{w \in \sigma_{\mathbb{1}}|\daleth} {}_k\lambda \neq w \Rightarrow \lambda - {}^{w}\text{ɿ} \neq 0 \Rightarrow \lambda \notin {}^{\sigma_{\mathbb{1}}|\daleth}\text{ɿ}$$

$${}^{\daleth}\text{ɿ} = \int^{\mathbb{C}_R} {}^{w}\text{ɿ}\, \overbrace{we - \daleth}^{-1}: \quad R > \ulcorner\daleth\urcorner \geqslant \bigvee \overline{\sigma_{\mathbb{1}}|\daleth}$$

$$\overbrace{we - \daleth}^{-1} = \overbrace{w\underbrace{e - \frac{\daleth}{w}}}^{-1} = \overset{-1}{w}\, \overbrace{e - \frac{\daleth}{w}}^{-1} = \overset{-1}{w} \sum_n^{\mathbb{N}} \frac{\daleth^n}{\overset{n}{w}} = \sum_n^{\mathbb{N}} \frac{\daleth^n}{\overset{n+1}{w}} \text{ glm } \ulcorner w \urcorner = R$$

$$\Rightarrow \int^{\mathbb{C}_R} \overset{m}{w}\, \overbrace{we - \daleth}^{-1} = \sum_n^{\mathbb{N}} \daleth^n \int^{\mathbb{C}_R} \overset{m-n-1}{w} = \daleth^m$$

$$\text{COR } \text{ɿ} \mapsto {}^{\daleth}\text{ɿ} \text{ unit hom } m = 0$$