

$${}_{\bigcirc}^m \mathbb{K}_n$$

$${}_{\mathbb{C}}^m \mathbb{K}_m \vdash {}_{\mathbb{C}}^m \mathbb{K}_{m+n} \xrightarrow{\lesssim} {}_{\bigcirc}^m \mathbb{K}_n$$

$$\begin{aligned} {}_{\mathbb{C}}^m \mathbb{K}_m \dashv & \mapsto \mathbb{K}_m \dashv \sqsubseteq_m \mathbb{K}_{m+n} \\ \mathbb{K}_m \dashv = \mathbb{K}_m \dashv \dashv & \Rightarrow \text{well-def} \end{aligned}$$

$$\mathbb{K}_m \dashv = \mathbb{K}_m \dashv \Rightarrow \bigvee \dashv \in {}_{\mathbb{C}}^m \mathbb{K}_m : \dashv \dashv = \dashv \Rightarrow \text{inj}$$

$$\Gamma \sqsubseteq_m \mathbb{K}_{m+n} \Rightarrow \bigvee_{\text{basis}} {}^1 \dashv \dots {}^m \dashv \in \Gamma \Rightarrow \bigvee_{\text{basis}} {}^1 \dashv \dots {}^m \dashv ; {}^{m+1} \lceil \dots {}^n \lceil \in \mathbb{K}_{m+n} \Rightarrow \mathbb{K}_m \cdot \dashv = \Gamma \Rightarrow \text{surj}$$