

$$o \in h \in \Delta_0$$

$$\Gamma \vdash \underset{0}{\mathbb{S}} \blacktriangleright_0 h : o$$

$$\underline{h} = \underbrace{\Gamma : \underset{0}{\mathbb{S}} \blacktriangleright_0 h : o}_{\mathbb{I}} \asymp \underbrace{\mathbb{I} \blacktriangleright_0 o : h}_{\gamma \in \Delta_0 o : h} = \begin{cases} \underbrace{\Gamma : \underset{0}{\mathbb{S}} \blacktriangleright_0 h : o}_{\mathbb{I}} \asymp \gamma \\ \gamma \in \Delta_0 o : h \end{cases}$$

$$\underbrace{\Gamma : \underset{0}{\mathbb{S}} \blacktriangleright_0 h : o}_{\mathbb{I}} \asymp \underbrace{\mathbb{I} \blacktriangleright_0 o : h}_{\stackrel{\epsilon}{\rightarrow} h}$$

$$\underbrace{\Gamma : \underset{0}{\mathbb{S}} \blacktriangleright_0 h : o}_{\mathbb{I}} \asymp \gamma \mapsto {}^1\gamma$$

$$\gamma \in \mathbb{I} \Delta_0 o : \mathbf{h}$$

${}^1\gamma \in U \subset \mathbf{h} \Rightarrow \text{off subbasis}$

$$\underbrace{\Gamma: \mathbb{S} \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \in \underbrace{\Gamma: \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I} \Delta_0 {}^1\gamma: U}_{\mathcal{Z}} \subset \underbrace{\Gamma: \mathbb{S} \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \underbrace{\mathbb{I} \Delta_0 o: \mathbf{h}}_{\mathcal{Z}}$$

$$\mathcal{Z} \asymp \mathbb{I} \Delta_0 {}^1\gamma: U \subset \underbrace{\mathbb{I} \Delta_0 o: \mathbf{h}}_{\mathcal{Z}}$$

$$\underbrace{\Gamma: \mathbb{S} \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} = \underbrace{\Gamma: \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \asymp {}^1\gamma$$

$$\underbrace{\Gamma: \mathbb{S} \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I} \Delta_0 {}^1\gamma: U \cap V}_{\mathcal{Z}} \subset \overbrace{\underbrace{\Gamma: \mathbb{S} \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I} \Delta_0 {}^1\gamma: U}_{\mathcal{Z}}} \cap \overbrace{\underbrace{\Gamma: \mathbb{S} \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I} \Delta_0 {}^1\gamma: V}_{\mathcal{Z}}}$$

$$\underbrace{\Gamma: \mathbb{S} \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \asymp \eta \in \underbrace{\Gamma: \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I} \Delta_0 {}^1\gamma: U}_{\mathcal{Z}}$$

$$\eta \in \mathbb{I} \Delta_0 {}^1\gamma: U$$

$$\Rightarrow \underbrace{\Gamma: \mathbb{S} \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \eta \asymp \underbrace{\mathbb{I} \Delta_0 {}^1\eta: U}_{\mathcal{Z}} = \underbrace{\Gamma: \Delta_0 \mathbf{h}: o}_{\mathcal{Z}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I} \Delta_0 {}^1\gamma: U}_{\mathcal{Z}}$$

$$\underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 o:\mathsf{h}}}_{\text{stet}} \xrightarrow{\epsilon} \mathsf{h}$$

$$\underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\gamma:U}}_{\text{stet}} \xrightarrow{\epsilon} U$$

$$\underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{off}} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 o:\mathsf{h}}}_{\text{off}} \xrightarrow{\epsilon} \mathsf{h} \text{ lic 0-zush}$$

$${}^1\gamma \in \underset{0\text{-zush}}{U} \subset \mathsf{h} \Rightarrow \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{0-zush}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\gamma:U}}_{\text{surj}} \xrightarrow{\epsilon} U$$

$${}^1\gamma \in U \subset \mathsf{h}$$

$$\underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \mathcal{Z} \asymp \eta \in \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\gamma:U}}_{\text{stet}}$$

$$\Rightarrow \bigvee U \supset \underset{0\text{-zush}}{V} \ni {}^1\eta$$

$$\begin{aligned} \Rightarrow \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\gamma:U}}_{\text{stet}} &= \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \underline{\gamma}\eta \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\eta:U}}_{\text{stet}} \supset \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \underline{\gamma}\eta \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\eta:V}}_{\text{stet}} \ni \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \underline{\gamma}\eta \\ &\Rightarrow \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \dot{\eta} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\vartheta:V}}_{\text{off subbasis}}^{0\text{-zush}} \\ &\quad \Rightarrow \underbrace{\mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\gamma:V}}_{\text{surj}} \xrightarrow{\epsilon} V \end{aligned}$$

$${}^1\gamma \in \underset{0\text{-zush}}{U} \subset \mathsf{h} \Rightarrow \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\gamma:U}}_{\text{homeo}} \xrightarrow{\epsilon} U$$

$$\begin{aligned} \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \mathcal{Z} \asymp \dot{\eta} &\in \underbrace{\Gamma: \mathbb{S}_{\blacktriangle_0} \mathsf{h}:o}_{\text{stet}} \asymp \mathcal{Z} \asymp \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\gamma:U}}_{\text{stet}} \\ \dot{\eta} &\in \underbrace{\mathbb{I}_{\blacktriangle_0 {}^1\gamma:U}}_{\text{stet}} \end{aligned}$$

$${}^1\eta = {}^1\dot{\eta} \Rightarrow \bar{\eta} \asymp \eta^- \in \mathbb{S}_{\blacktriangle_0} U:{}^1\gamma = \text{pt} \Rightarrow \underline{\gamma} \asymp \underline{\eta} = \underline{\gamma} \asymp \underline{\eta} \eta^- \asymp \dot{\eta} = \underline{\gamma} \asymp \dot{\eta} \Rightarrow \text{inj}$$

$$\mathfrak{e}_U^{-1} \underset{\text{disj}}{=} \bigcup_{\gamma \in U} \underbrace{\Gamma: \mathbb{S}_{\blacktriangleright_0^1 \hbar: o}}_{\mathbb{I}} \asymp \gamma \asymp \underbrace{\mathbb{I}_{\blacktriangleright_0^1 \gamma: U}}_{\mathbb{I}}$$

$$\begin{aligned} & \underbrace{\Gamma: \mathbb{S}_{\blacktriangleright_0^1 \hbar: o}}_{\mathbb{I}} \asymp \eta \in \underbrace{\Gamma: \mathbb{S}_{\blacktriangleright_0^1 \hbar: o}}_{\mathbb{I}} \asymp \gamma \asymp \underbrace{\mathbb{I}_{\blacktriangleright_0^1 \gamma: U}}_{\mathbb{I}} \cap \underbrace{\Gamma: \mathbb{S}_{\blacktriangleright_0^1 \hbar: o}}_{\mathbb{I}} \asymp \dot{\gamma} \asymp \underbrace{\mathbb{I}_{\blacktriangleright_0^1 \dot{\gamma}: U}}_{\mathbb{I}} \\ \Rightarrow & \underbrace{\Gamma: \mathbb{S}_{\blacktriangleright_0^1 \hbar: o}}_{\mathbb{I}} \asymp \gamma \asymp \underbrace{\mathbb{I}_{\blacktriangleright_0^1 \gamma: U}}_{\mathbb{I}} = \underbrace{\Gamma: \mathbb{S}_{\blacktriangleright_0^1 \hbar: o}}_{\mathbb{I}} \asymp \eta \asymp \underbrace{\mathbb{I}_{\blacktriangleright_0^1 \eta: U}}_{\mathbb{I}} = \underbrace{\Gamma: \mathbb{S}_{\blacktriangleright_0^1 \hbar: o}}_{\mathbb{I}} \asymp \dot{\gamma} \asymp \underbrace{\mathbb{I}_{\blacktriangleright_0^1 \dot{\gamma}: U}}_{\mathbb{I}} \end{aligned}$$

$$\underbrace{\Gamma: \mathbb{S}_{\blacktriangleright_0^1 \hbar: o}}_{\mathbb{I}} \asymp \underbrace{\mathbb{I}_{\blacktriangleright_0^1 o: \hbar}}_{\mathbb{I}} \text{ 0-zush}$$