$$\mathbb{h} \in \overset{\omega}{\underset{0}{\square}} \text{ lic cpt}$$

$$\overset{\mathbb{h}}{\underset{0}{\square}}{}^{0}\mathbb{R}$$

$$\overset{\mathbb{h}}{\underset{0}{\square}}{}^{V}\mathbb{R} = \frac{\eta \in \overset{\mathbb{h}}{\underset{0}{\square}}{}^{0}\mathbb{R}}{\mathbb{h} \llcorner V\, \eta = 0}$$

$$0/ \qquad \bigwedge_{\eta : \mathbb{1} \neq 0}^{\overset{\mathbb{h}}{\underset{0}{\square}}{}^{0}\mathbb{R}_+} \bigvee_{\mathbb{1}^{\mathbb{h}} \cdots\, {}_n\mathbb{h}}^{\mathbb{h}} \bigvee_{\alpha^1 \cdots \alpha^n}^{\geqslant 0} \eta \leqslant \sum_i \alpha^i\, {}_i\mathbb{h}^{\overset{1}{\mathbb{x}}}\, \eta$$

$$\eta \Uparrow \mathbb{1} = \bigwedge_{\eta \leqslant \sum_i \alpha^i\, {}_i\mathbb{h}^{\overset{1}{\mathbb{x}}}\eta} \sum_i \alpha^i$$

$$\eta \rfloor \mathbb{1} = \bigvee_{\sum_j \beta^j\, {}_j\mathbb{h}^{\overset{1}{\mathbb{x}}}\eta \leqslant \eta} \sum_j \beta^j$$

$$01/ \qquad \eta \leqslant \acute{\eta} \Longrightarrow \eta \Uparrow \mathbb{1} \leqslant \acute{\eta} \Uparrow \mathbb{1}$$

$$02/ \qquad \eta \Uparrow \mathbb{1} \leqslant \underbrace{\eta \Uparrow \eta}\, \underbrace{\eta \Uparrow \mathbb{1}}$$

$$03/ \qquad \underbrace{\mathbb{h}^{\overset{1}{\mathbb{x}}}\eta} \Uparrow \mathbb{1} = \eta \Uparrow \mathbb{1}$$

$$04/ \qquad \underbrace{\alpha \eta} \Uparrow \mathbb{1} = \alpha \eta \Uparrow \mathbb{1}$$

$$05/ \qquad \overbrace{\sum_i \eta_i} \Uparrow \mathbb{1} \leqslant \sum_i \eta_i \Uparrow \mathbb{1}$$

$$1/ \qquad \bigwedge_{\eta_1 \cdots \eta_n}^{\overset{\mathbb{h}}{\underset{0}{\square}}{}^{0}\mathbb{R}} \bigwedge_{\lambda > 1} \overset{\mathcal{U}_e}{\bigvee_{V}} \bigwedge_{0 \neq \mathbb{1}}^{\overset{\mathbb{h}}{\underset{0}{\square}}{}^{V}\mathbb{R}_+} \sum_i \eta_i \Uparrow \mathbb{1} \leqslant \lambda \overbrace{\sum_i \eta_i} \Uparrow \mathbb{1}$$

$$2/ \qquad \overset{\mathbb{h}}{\underset{0}{\square}}{}^{K}\mathbb{R}_+ \ni \eta_i \underset{\text{cpt}}{\backsim} \eta \neq 0 \Longrightarrow \frac{\eta_i \Uparrow \mathbb{1}}{\eta \Uparrow \mathbb{1}} \backsim 1 \text{ unif } \mathbb{1}$$

$$\bigvee_{\eta}^{\overset{\mathbb{h}}{\underset{0}{\square}}{}^{0}\mathbb{R}_+} \bigwedge_{\mathbb{h}}^{K} {}^{\mathbb{h}}\eta = 1$$

$$\bigwedge_{\varepsilon > 0} \bigvee_i \bigwedge_{j > i} \overline{\eta_j - \eta} \leqslant \frac{\varepsilon \eta \Uparrow \mathbb{1}}{\eta \Uparrow \eta}$$

$$0 \neq \mathbb{1} \in \overset{\mathbb{h}}{\underset{0}{\square}}{}^{0}\mathbb{R}_+ \Longrightarrow \overline{\eta_j \Uparrow \mathbb{1} - \eta \Uparrow \mathbb{1}} \leqslant \frac{\varepsilon \eta \Uparrow \mathbb{1}}{\eta \Uparrow \eta} \Longrightarrow \overline{\frac{\eta_i \Uparrow \mathbb{1}}{\eta \Uparrow \mathbb{1}} - 1} \leqslant \varepsilon$$