$$\underset{\text{prim}}{\square} \subset \overset{-}{\underset{\circ}{K}} : \quad |\, \square \,| = r$$

$$\bigvee {}_{\square}\underline{K} = {}^{\mathbb{R}}_{\square}\underline{K} \overset{\text{cpt}}{\underset{\text{Car}}{\sqsubset}} K$$

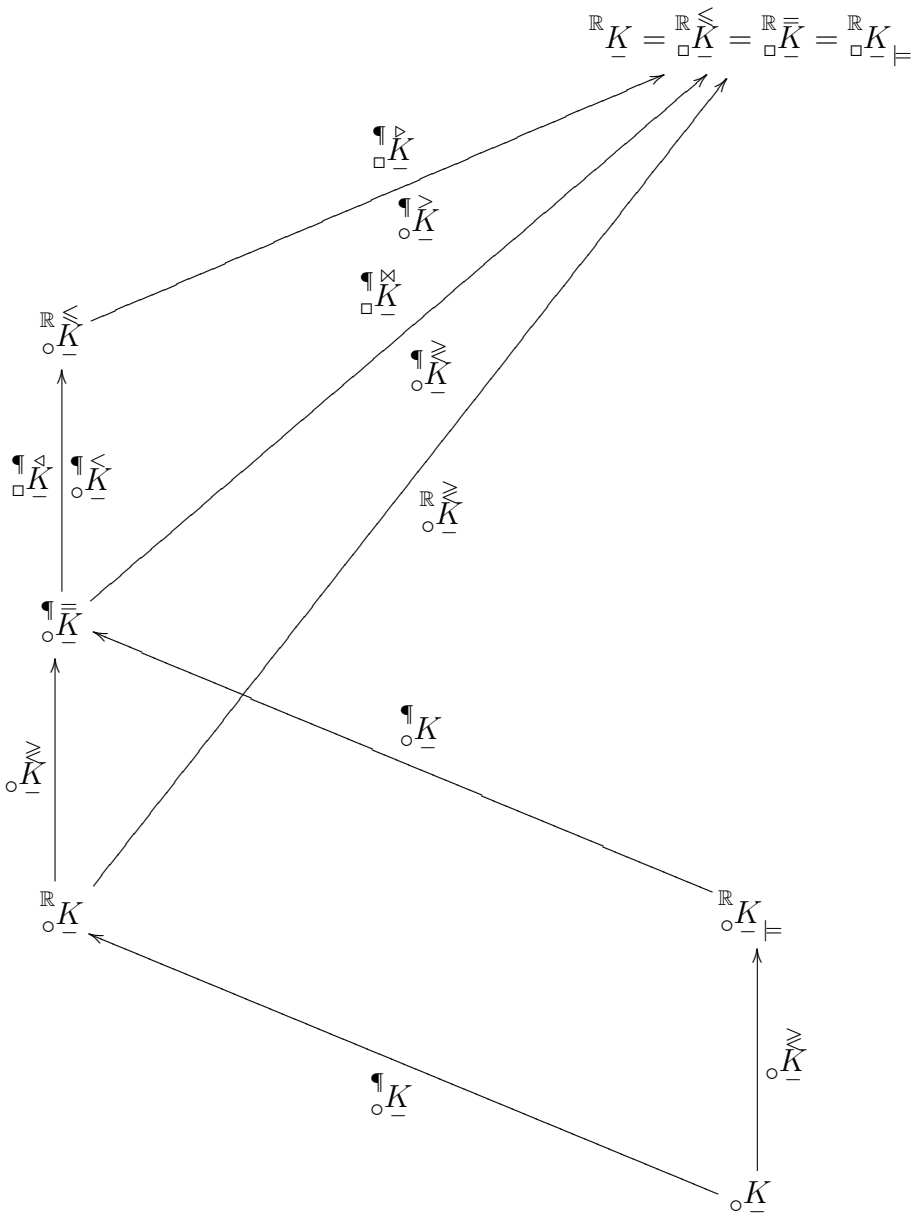
$${}^{\P}_{\square}\underline{K} = {}^{\P}_{\circ}\underline{K} \blacktriangleleft_{\square} = \frac{\not\vdash \in {}^{\P}_{\circ}\underline{K}}{\not\vdash |\ \square = 0} = 0$$

$${}^{\mathbb{R}}_{\square}\overset{\perp\!\!\!\perp}{\underline{K}} = {}^{\mathbb{R}}\underline{K} \blacktriangleleft_{{}^{\P}_{\square}\underline{K}} = {}^{\mathbb{R}}\underline{K} = {}^{\mathbb{R}}_{\square}\overset{\perp}{\underline{K}} \times \underbrace{{}^{\P}_{\square}\underline{K}}_{=0}$$

$${}^{\mathbb{R}}_{\square}\overset{\perp\!\!\!\perp}{\underline{K}} = {}^{\mathbb{R}}_{\square}\overset{\perp}{\underline{K}} = {}^{\mathbb{R}}_{\circ}\overset{\perp}{\underline{K}} \times {}^{\P}_{\circ}\underline{K} \times {}_{\square}\overset{\bowtie}{\underline{K}} = {}^{\mathbb{R}}_{\circ}\overset{\perp}{\underline{K}} \times {}_{\square}\overset{\bowtie}{\underline{K}}$$

$${}_{\square}\overset{\bowtie}{\underline{K}} = \frac{{}^{\P}_{\circ}\overset{\not\dashv}{\underline{K}}}{{}^{\P}_{\circ}\overset{\ddagger}{\underline{K}} \ni \not\dashv \in <\square>} = {}_{\square}\overset{\bowtie}{\underline{K}} \times {}_{\square}\overset{\bowtie}{\underline{K}} = \frac{{}^{\P}_{\circ}\overset{\pm\not\dashv}{\underline{K}}}{{}^{\P}_{\circ}\overline{\underline{K}} \ni \not\dashv \in <\square>}$$

$$\overline{\underline{\hbar}}^{\mathbb{R}} = {}_{\square}\underline{K} = \frac{{}^{\equiv \mathbb{R}\bullet}_{\circ}\overline{\underline{\hbar}}_{\perp}}{{}^{\mathbb{R}\bullet}_{\circ}\overline{\underline{\hbar}}_{\perp}} = \frac{\overline{\underline{\hbar}}^{\mathbb{R}\bullet}}{{}^{\mathbb{R}\bullet}_{\circ}\overline{\underline{\hbar}}_{\perp}} \times {}^{\mathbb{R}\bullet}_{\circ}\overline{\underline{\hbar}} \overset{\max}{\underset{\text{abel}}{\sqsupset}} {}_{\square}\underline{K} \text{ cpt}$$


$^{\mathbb{R}}_{\square}K = {}^{\mathbb{R}}_{\square}\overset{\leqslant}{K} = {}^{\mathbb{R}}_{\square}\overset{=}{K} = {}^{\mathbb{R}}_{\square}K_{\models}$
$\P\overset{\triangleright}{\underset{\square}{K}}$
$\P\overset{>}{\underset{\circ}{K}}$
$\P\overset{\bowtie}{\underset{\square}{K}}$
$^{\mathbb{R}}\overset{\leqslant}{\underset{\circ}{K}}$
$\P\overset{\geqslant}{\underset{\circ}{K}}$
$\P\overset{\lhd}{\underset{\square}{K}}$
$\P\overset{\leqslant}{\underset{\circ}{K}}$
$^{\mathbb{R}}\overset{\geqslant}{\underset{\circ}{K}}$
$\P\overset{=}{\underset{\circ}{K}}$
$\P\underset{\circ}{K}$
$\overset{\geqslant}{\underset{\circ}{K}}$
$^{\mathbb{R}}\underset{\circ}{K}$
$^{\mathbb{R}}\underset{\circ}{K}_{\models}$
$\overset{\geqslant}{\underset{\circ}{K}}$
$\P\underset{\circ}{K}$
$\underset{\circ}{K}$

$$\overset{\mathbb{R}}{\underline{K}} \underset{\text{co-root}}{\overset{\mathbb{R}}{\underline{\underline{K}}}} \overset{\mathbb{R}}{\underline{K}} \blacktriangleleft \underset{\square}{\overset{\P}{\underline{K}}} = \overset{\mathbb{R}}{\underline{K}} \blacktriangleleft \underset{\square}{\overset{\P}{\underline{K}}} \times \frac{\overset{\P\,1}{\underset{\circ}{\underline{K}}}}{\underbrace{\underset{\circ}{\overset{\P}{\underline{K}}} \ni 1 \notin <\square>}_{=0}} = \overset{\mathbb{R}}{\underline{K}} \blacktriangleleft \underset{\circ}{\overset{\P}{\underline{K}}} \times \frac{\overset{\P\,1}{\underset{\circ}{\underline{K}}}}{\underset{\circ}{\overline{\underline{K}}} \ni 1}$$

$$\overset{\mathbb{R}}{\underline{K}} \blacktriangleleft \underset{\square}{\overset{\P}{\underline{K}}} = \overset{\mathbb{R}}{\underline{K}} \blacktriangleleft \underset{\circ}{\overset{\P}{\underline{K}}} \times \frac{\overset{\P\,1}{\underset{\circ}{\underline{K}}}}{\underset{\circ}{\overset{\ddagger}{\underline{K}}} \ni 1 \in <\square>}$$

$$\overset{\mathbb{R}}{\underline{K}} \blacktriangleleft \underset{\circ}{\overset{\P}{\underline{K}}} = \overset{\mathbb{R}}{\underset{\circ}{\underline{K}}} \times \frac{\overset{\P\,1}{\underset{\circ}{\underline{K}}}}{\underset{\circ}{\overset{\ddagger}{\underline{K}}} \ni 1}$$

$$\overset{\mathbb{R}}{\underline{K}} = \overset{\mathbb{R}}{\underset{\square}{\overline{\underline{K}}}} = \overset{\mathbb{R}}{\underset{\circ}{\underline{K}}} \times \overset{\mathbb{R}}{\underset{\square}{\underline{K}}} = \overset{\mathbb{R}}{\underset{\circ}{\overline{\underline{K}}}} \times \frac{\overset{\mathbb{R}\,1}{\underset{\circ}{\underline{K}}}}{\underset{\circ}{\overline{\underline{K}}} \ni 1} = \underset{\circ}{\overline{\underline{\underline{K}}}} \times \underset{\circ}{\overset{\P}{\underline{K}}} \times \frac{\overset{\mathbb{R}\,1}{\underset{\circ}{\underline{K}}}}{\underset{\circ}{\overline{\underline{K}}} \ni 1}$$

$$\overset{\mathbb{R}\,0}{\underset{\square}{\underline{K}}} = \frac{\overset{\mathbb{R}\,1}{\underset{\circ}{\underline{K}}}}{\underset{\circ}{\overline{\underline{K}}} \ni 1} = \overset{\mathbb{R}}{\underline{K}} \cap \frac{\overset{\mathbb{R}\,1\,\mathrm{C}}{\underset{\circ}{\underline{K}}}}{\underset{\circ}{\overline{\underline{K}}^{\mathrm{C}}} \ni 1} = \overset{\mathbb{R}\,0}{\underset{\circ}{\underline{K}}} \times \frac{\overset{\mathbb{R}\,1}{\underset{\circ}{\underline{K}}}}{\underset{\circ}{\overline{\underline{K}}} \ni 1}$$

$$\mathrm{cpt}\ \overset{\mathbb{R}}{\underset{\square}{\underline{K}}} = \underset{\square}{\underline{K}}\ \underset{\text{abel}}{\overset{\max}{\sqsubset}}\ \overset{\mathbb{R}}{\underline{K}} = \overset{\mathbb{R}}{\underset{\square}{\overline{\underline{K}}}} = \underset{\square}{\overline{\underline{\underline{K}}}}$$

$$\overset{\mathbb{R}}{\underset{\square}{\overset{\gtrless}{\underline{K}}}} = 0$$

$$\overset{\mathbb{R}}{\underset{\square}{\overset{\leqslant}{\underline{K}}}} = \overset{\mathbb{R}}{\underset{\square}{\overline{\underline{K}}}} = \overset{\mathbb{R}}{\underline{K}}\ \underset{\mathbb{R}}{\text{fullbolic}}$$

$$\overset{\mathbb{R}}{\underset{\bigcirc}{\overset{>}{\underline{K}}}} = 0$$