$$ {}^{\mathbb{R}}\underline{K} = \underline{K} \times {}^{\P}\underline{K} $$

$$ \bigvee_{\operatorname{Int} \underline{K} \text{ eind}} {}^{\P}_{\circ}\underline{K} \overset{\max}{\underset{\text{abel}}{\sqsubset}} {}^{\P}\underline{K} $$

$$ {}^{\mathbb{R}}_{\circ}\underline{K} = {}_{\circ}\underline{K} \times {}^{\P}_{\circ}\underline{K} $$

$$ {}_{\circ}\overset{\perp}{\underline{K}} = \underline{K} \blacktriangleleft {}^{\P}_{\circ}\underline{K} = \frac{\flat \in \underline{K}}{\flat \divideontimes {}^{\P}_{\circ}\underline{K} = 0} $$

$$ {}^{\mathbb{R}}_{\circ}\underline{K} \underset{\text{Car}}{\sqsubset} {}^{\mathbb{R}}_{\circ}\overset{\perp\!\!\perp}{\underline{K}} = {}^{\mathbb{R}}\underline{K} \blacktriangleleft {}^{\P}_{\circ}\underline{K} = \frac{\flat \in {}^{\mathbb{R}}\underline{K}}{\flat \divideontimes {}^{\P}_{\circ}\underline{K} = 0} = {}_{\circ}\overset{\perp}{\underline{K}} \times {}^{\P}_{\circ}\underline{K} $$

$$ {}_{\circ}\underline{K} \underset{\text{Car}}{\sqsubset} {}_{\circ}\overset{\perp}{\underline{K}} $$

$$ \begin{cases} {}_{\circ}\overset{\perp}{\underline{K}} \\ {}^{\mathbb{R}}_{\circ}\overset{\perp\!\!\perp}{\underline{K}} \end{cases} = \begin{cases} {}_{\circ}\underline{K} \\ {}^{\mathbb{R}}_{\circ}\underline{K} \end{cases} \times {}_{\circ}\overset{\bowtie}{\underline{K}} $$

$$ {}_{\circ}\overset{\bowtie}{\underline{K}} = \underline{K} \cap {}_{\circ}\overset{\bowtie}{\underline{K}}{}^{\mathbb{C}} $$

$$ {}^{\mathbb{R}}_{\circ}\underline{K} \underset{\text{Car}}{\sqsubset} {}^{\mathbb{R}}\underline{K} = {}^{\mathbb{R}}_{\circ}\underline{K}^{\perp} \times {}^{\mathbb{R}}_{\circ}\underline{K}^{\bowtie} = \overbrace{{}^{\mathbb{R}}_{\circ}\underline{K}^{\perp}\times{}^{\mathbb{R}}_{\circ}\underline{K}^{\ltimes}}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ltimes}} \times {}^{\mathbb{R}}_{\circ}\underline{K}^{\rtimes} $$

$$ = {}^{\mathbb{R}}_{\circ}\underline{K}\times \overbrace{{}_{\circ}\underline{K}^{\bowtie}\times{}^{\mathbb{R}}_{\circ}\underline{K}^{\bowtie}}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\bowtie}} $$

$$ {}^{\P}_{\circ}\underline{K}^{\sharp} \ni \daleth \neq 0 \Longrightarrow {}^{\mathbb{R}}_{\circ}\underline{K}^{\daleth} = \frac{b \in {}^{\mathbb{R}}\underline{K}}{\bigwedge_{\flat \in {}^{\P}_{\circ}\underline{K}} b \ast \flat = \underbrace{\flat\daleth}b} $$

$$ {}^{\P}_{\circ}\underline{K}^{\daleth} = {}^{\mathbb{R}}\underline{K} \cap \frac{{}^{\mathbb{R}}_{\circ}\underline{K}^{\daleth\,\mathbb{C}}}{\daleth \in {}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}: \quad {}^{\P}_{\circ}\underline{K}|\daleth = \daleth} $$

$$ \subset: \quad {}^{\mathbb{R}}\underline{K} \cap {}^{\mathbb{R}}_{\circ}\underline{K}^{\daleth\,\mathbb{C}} \ni b = \sum_{{}^{\P}_{\circ}\underline{K}|\daleth=\daleth}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}} \mathbf{b}_{\daleth} \Rightarrow b \ast \flat = \sum_{{}^{\P}_{\circ}\underline{K}|\daleth=\daleth}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}} \mathbf{b}_{\daleth} \ast \flat = \sum_{{}^{\P}_{\circ}\underline{K}|\daleth=\daleth}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}} \underbrace{\flat\daleth}_{\flat\daleth} \mathbf{b}_{\daleth} = \flat\daleth \sum_{{}^{\P}_{\circ}\underline{K}|\daleth=\daleth}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}} \mathbf{b}_{\daleth} = \underbrace{\flat\daleth}b $$

$$ \Longrightarrow b \in {}^{\P}_{\circ}\underline{K}^{\daleth} \supset: \quad {}^{\P}_{\circ}\underline{K}^{\daleth} \ni b = \flat + \sum_{\daleth}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}} \mathbf{b}_{\daleth} \in {}^{\mathbb{R}}_{\circ}\underline{K}^{\mathbb{C}} \times {}^{\mathbb{R}}_{\circ}\underline{K}^{\bowtie\,\mathbb{C}} $$

$$ \Longrightarrow \bigwedge_{\flat}^{{}^{\P}_{\circ}\underline{K}} \underbrace{\flat\daleth}\flat + \underbrace{\flat\daleth} \sum_{\daleth}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}} \mathbf{b}_{\daleth} = \underbrace{\flat\daleth}b = b \ast \flat = \flat \ast \flat + \sum_{\daleth}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}} \mathbf{b}_{\daleth} \ast \flat = \sum_{\daleth}^{{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}}} \underbrace{\flat\daleth} \mathbf{b}_{\daleth} \Rightarrow 0 = \begin{cases} \mathbf{b} & \\ \mathbf{b}_{\daleth} & {}^{\P}_{\circ}\underline{K}|\daleth \neq \daleth \end{cases} $$

$$ \text{rroots } {}^{\P}_{\circ}\underline{K}^{\sharp} \supset {}^{\P}_{\circ}\underline{K}^{\ddagger} = \frac{0 \neq \daleth \in {}^{\P}_{\circ}\underline{K}^{\sharp}}{{}^{\P}_{\circ}\underline{K}^{\daleth} \neq 0} = {}^{\P}_{\circ}\underline{K}|{}^{\mathbb{R}}_{\circ}\underline{K}^{\ddagger\,\mathbb{C}} \frac{\flat \in {}^{\mathbb{R}}_{\circ}\underline{K}}{\bigwedge_{\daleth \neq 0} \flat\daleth \neq 0} \supset {}^{\mathbb{R}}_{\circ}\underline{K}_{\models} \text{ Weyl cham } \Longrightarrow {}^{\P}_{\circ}\underline{K}^{-} = {}^{\P}_{\circ}\underline{K}|{}^{\mathbb{R}}_{\circ}\underline{K}^{-\,\mathbb{C}} \text{ pos} $$

$$ {}^{\mathbb{R}}_{\circ}\underline{K}^{\bowtie} = \frac{{}^{\P}_{\circ}\underline{K}^{\daleth}}{{}^{\P}_{\circ}\underline{K}^{\ddagger} \ni \daleth} = \frac{{}^{\P}_{\circ}\underline{K}^{\daleth}}{{}^{\P}_{\circ}\underline{K}^{\ddagger} \ni \daleth \notin <\circ>} = {}^{\mathbb{R}}\underline{K} \cap {}^{\mathbb{R}}_{\circ}\underline{K}^{\bowtie\,\mathbb{C}} = {}^{\mathbb{R}}_{\circ}\underline{K}^{\ltimes} \times {}^{\mathbb{R}}_{\circ}\underline{K}^{\rtimes} = \frac{{}^{\P}_{\circ}\underline{K}^{\pm\daleth}}{\daleth \in {}^{\P}_{\circ}\underline{K}^{-}} = \frac{{}^{\P}_{\circ}\underline{K}^{\pm\daleth}}{{}^{\P}_{\circ}\underline{K}^{-} \ni \daleth \notin <\circ>} $$

$$ {}^{\P}_{\circ}\underline{K}^{\bowtie} = \frac{{}^{\P}_{\circ}\underline{K}^{\pm\daleth}}{{}^{\P}_{\circ}\underline{K}^{-} \ni \daleth \in <\circ>} = 0 $$