

$$\mathbb{R} \underline{K} = \underline{K} \times \mathbb{1} \underline{K}$$

$$\bigvee_{\text{Int } K \text{ eind}} \mathbb{1} \underline{K} \stackrel{\max}{\sqsubseteq} \mathbb{1} \underline{K}$$

$$\mathbb{R} \circ \underline{K} = \circ \underline{K} \times \mathbb{1} \circ \underline{K}$$

$$\circ \underline{K}^\perp = \underline{K} \blacktriangleright \mathbb{1} \circ \underline{K} = \frac{\mathfrak{b} \in \underline{K}}{\mathfrak{b} \times \mathbb{1} \circ \underline{K} = 0}$$

$$\mathbb{R} \circ \underline{K} \stackrel{\text{Car}}{\sqsubseteq} \mathbb{R} \circ \underline{K}^\perp = \mathbb{R} \underline{K} \blacktriangleright \mathbb{1} \circ \underline{K} = \frac{\mathfrak{b} \in \mathbb{R} \underline{K}}{\mathfrak{b} \times \mathbb{1} \circ \underline{K} = 0} = \circ \underline{K}^\perp \times \mathbb{1} \circ \underline{K}$$

$$\circ \underline{K} \stackrel{\text{Car}}{\sqsubseteq} \circ \underline{K}^\perp$$

$$\left\{ \begin{array}{c} \circ \underline{K}^\perp \\ \mathbb{R} \circ \underline{K}^\perp \end{array} \right\} = \left\{ \begin{array}{c} \circ \underline{K} \\ \mathbb{R} \circ \underline{K} \end{array} \right\} \times \circ \underline{K}^\mathfrak{M}$$

$$\circ \underline{K}^\mathfrak{M} = \underline{K} \cap \circ \underline{K}^\mathfrak{M} \mathbb{C}$$

$$\begin{aligned} \mathbb{R}_{\underline{K}} \stackrel{\text{Car}}{\subseteq} \mathbb{R}_{\underline{K}} &= \mathbb{R}_{\underline{K}}^{\perp} \times \mathbb{R}_{\underline{K}}^{\mathbb{M}} = \overbrace{\mathbb{R}_{\underline{K}}^{\perp} \times \mathbb{R}_{\underline{K}}^{\mathbb{M}}}^{\mathbb{R}_{\underline{K}}^{\mathbb{M}}} \times \mathbb{R}_{\underline{K}}^{\mathbb{M}} \\ &= \mathbb{R}_{\underline{K}} \times \overbrace{\mathbb{R}_{\underline{K}}^{\mathbb{M}} \times \mathbb{R}_{\underline{K}}^{\mathbb{M}}}^{\mathbb{R}_{\underline{K}}^{\mathbb{M}}} \end{aligned}$$

$$\begin{aligned} \mathbb{R}_{\underline{K}}^{\sharp} \ni 1 \neq 0 &\Rightarrow \mathbb{R}_{\underline{K}}^{\perp} = \frac{b \in \mathbb{R}_{\underline{K}}}{\bigwedge_{\mathfrak{b} \in \mathbb{R}_{\underline{K}}} b \times \mathfrak{b} = \mathfrak{b} \mathfrak{b}} \\ \mathbb{R}_{\underline{K}}^{\perp} &= \mathbb{R}_{\underline{K}} \cap \frac{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}}{1 \in \mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}} : \mathbb{R}_{\underline{K}} | 1 = 1} \end{aligned}$$

$$c : \mathbb{R}_{\underline{K}} \cap \mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}} \ni b = \sum_{\mathbb{R}_{\underline{K}} | 1 = 1}^{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}} \mathfrak{b}_1 \Rightarrow b \times \mathfrak{b} = \sum_{\mathbb{R}_{\underline{K}} | 1 = 1}^{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}} \mathfrak{b}_1 \times \mathfrak{b} = \sum_{\mathbb{R}_{\underline{K}} | 1 = 1}^{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}} \underbrace{\mathfrak{b}_1}_{\mathfrak{b} \mathfrak{b}} = \mathfrak{b} \mathfrak{b} \sum_{\mathbb{R}_{\underline{K}} | 1 = 1}^{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}} \mathfrak{b}_1 = \mathfrak{b} \mathfrak{b} b$$

$$\Rightarrow b \in \mathbb{R}_{\underline{K}}^{\perp} \supset : \mathbb{R}_{\underline{K}}^{\perp} \ni b = \mathfrak{b} + \sum_1^{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}} \mathfrak{b}_1 \in \mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}} \times \mathbb{R}_{\underline{K}}^{\mathbb{M}, \mathbb{C}}$$

$$\Rightarrow \bigwedge_{\mathfrak{b}} \mathfrak{b} \mathfrak{b} + \mathfrak{b} \mathfrak{b} \sum_1^{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}} \mathfrak{b}_1 = \mathfrak{b} \mathfrak{b} b = b \times \mathfrak{b} = \mathfrak{b} \times \mathfrak{b} + \sum_1^{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}} \mathfrak{b}_1 \times \mathfrak{b} = \sum_1^{\mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}}} \mathfrak{b} \mathfrak{b}_1 \Rightarrow 0 = \begin{cases} \mathfrak{b} \\ \mathfrak{b}_1 \end{cases} \mathbb{R}_{\underline{K}} | 1 \neq 1$$

$$\text{roots } \mathbb{R}_{\underline{K}}^{\sharp} \supset \mathbb{R}_{\underline{K}}^{\perp} = \frac{0 \neq 1 \in \mathbb{R}_{\underline{K}}^{\sharp}}{\mathbb{R}_{\underline{K}}^{\perp} \neq 0} = \mathbb{R}_{\underline{K}}^{\perp} | \mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}} \frac{b \in \mathbb{R}_{\underline{K}}}{\bigwedge_{1 \neq 0} \mathfrak{b} \mathfrak{b} \neq 0} \supset \mathbb{R}_{\underline{K}}^{\perp} \stackrel{\text{Weyl cham}}{\neq} \Rightarrow \mathbb{R}_{\underline{K}}^{\perp} = \mathbb{R}_{\underline{K}}^{\perp} | \mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}} \text{ pos}$$

$$\mathbb{R}_{\underline{K}}^{\mathbb{M}} = \frac{\mathbb{R}_{\underline{K}}^{\perp}}{\mathbb{R}_{\underline{K}}^{\perp} \ni 1} = \frac{\mathbb{R}_{\underline{K}}^{\perp}}{\mathbb{R}_{\underline{K}}^{\perp} \ni 1 \notin \langle \circ \rangle} = \mathbb{R}_{\underline{K}} \cap \mathbb{R}_{\underline{K}}^{\perp, \mathbb{C}} = \mathbb{R}_{\underline{K}}^{\perp} \times \mathbb{R}_{\underline{K}}^{\perp} = \frac{\mathbb{R}_{\underline{K}}^{\perp}}{1 \in \mathbb{R}_{\underline{K}}^{\perp}} = \frac{\mathbb{R}_{\underline{K}}^{\perp}}{\mathbb{R}_{\underline{K}}^{\perp} \ni 1 \notin \langle \circ \rangle}$$

$$\mathbb{R}_{\underline{K}}^{\mathbb{M}} = \frac{\mathbb{R}_{\underline{K}}^{\perp}}{\mathbb{R}_{\underline{K}}^{\perp} \ni 1 \in \langle \circ \rangle} = 0$$

