$$\bigvee {}^{\mathbb{R}}\underline{\mathbb{h}}_{-} \underset{\text{abel}}{\overset{\max}{\sqsupset}} {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet} \ \underline{\mathrm{Int}} \left({}^{\mathbb{R}}G_1\right) \text{ eind}$$

$$0 \in \ \mathrm{sing} \ \left({}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\sharp\bullet}\right) = \frac{\alpha = {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet}|\alpha}{\alpha \in \ \mathrm{sing} \ \left({}^{\mathbb{C}}\underline{\mathbb{h}}^{\sharp\bullet}\right)} \text{ restricted roots}$$

$$^{\mathbb{R}}\underline{\mathbb{h}} = {}^{\mathbb{R}}\underline{\mathbb{h}}^{\bullet} \times {}^{\mathbb{R}}_{\bullet}\underline{\mathbb{h}}^{\bullet} \times \sum_{\alpha \in {}^{\mathbb{R}}\underline{\mathbb{h}}_{\neq -}^{\sharp\bullet}} {}^{\mathbb{R}}_{\alpha}\underline{\mathbb{h}}^{\bullet} = {}^{\mathbb{R}}_{1}\underline{\mathbb{h}}^{\bullet} \times {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet} \times \sum_{\alpha \in {}^{\mathbb{R}}\underline{\mathbb{h}}_{\neq -}^{\sharp\bullet}} {}^{\mathbb{R}}_{\alpha}\underline{\mathbb{h}}^{\bullet}$$

$$^{\mathbb{R}}_{\alpha}\underline{\mathbb{h}}^{\bullet} = {}^{\mathbb{R}}\underline{\mathbb{h}} \cap \sum_{\alpha = {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet}|\alpha} {}^{\mathbb{C}}\underline{\mathbb{h}}_{\alpha}^{\bullet}$$

$$^{\mathbb{R}}_{0}\underline{\mathbb{h}}^{\bullet} = {}^{\mathbb{R}}\underline{\mathbb{h}} \cap \sum_{0 = {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet}|\alpha} {}^{\mathbb{C}}\underline{\mathbb{h}}_{\alpha}^{\bullet}$$

$$^{\mathbb{R}}\underline{\overline{\mathbb{h}}}_{-}^{\bullet} = {}^{\mathbb{R}}\underline{\mathbb{h}}^{\bullet} \times {}^{\mathbb{R}}_{\bullet}\underline{\mathbb{h}}^{\bullet} = {}^{\mathbb{R}}_{1}\underline{\mathbb{h}}^{\bullet} \times {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet} \underset{\text{abel}}{\overset{\max}{\sqsupset}} {}^{\mathbb{R}}\underline{\mathbb{h}}^{\bullet} = {}^{\mathbb{R}}\underline{\mathbb{h}}_{1}^{\bullet} \times {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet}$$

$$^{\mathbb{R}}_{\alpha}\underline{\mathbb{h}}^{\bullet} = \frac{\mathfrak{b} \in {}^{\mathbb{R}}\underline{\mathbb{h}}}{\bigwedge_{\flat \in {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet}} \mathfrak{b} \times \flat = \flat\alpha\mathbb{b}}$$

$$\alpha \neq 0$$

$$\subset: \quad \mathfrak{b} = \sum_{\alpha = {}^{\mathbb{R}}\underline{\mathbb{h}}_{-}^{\bullet}|\alpha} \mathfrak{b}_{\alpha} \Rightarrow \mathfrak{b} \times \flat = \sum_{\alpha} \mathfrak{b}_{\alpha} \times \flat = \sum_{\alpha} \flat \mathcal{G} \mathbb{b}_{\alpha} = \sum_{\alpha} \flat \mathfrak{g} \mathbb{b}_{\alpha} = \flat \mathfrak{g} \mathbb{b}$$

$$\supset: \quad \mathfrak{b} = \mathfrak{b}_0 + \sum_{\alpha} \mathfrak{b}_{\alpha} \in {}^{\mathbb{C}}\underline{\mathbb{h}}^{\bullet} \times \sum_{\alpha} {}^{\mathbb{C}}\underline{\mathbb{h}}_{\alpha}^{\bullet} \Rightarrow \mathfrak{b} \times \flat = \mathfrak{b}_0 \times \flat + \sum_{\alpha} \mathfrak{b}_{\alpha} \times \flat = \sum_{\alpha} \flat \mathcal{G} \mathbb{b}_{\alpha} = \flat \mathfrak{g} \mathbb{b} = \flat \mathfrak{g} \mathbb{b}_0 + \sum_{\alpha} \flat \mathfrak{g} \mathbb{b}_{\alpha} \Rightarrow \mathfrak{b}_0 = 0 =$$

$$^{\mathbb{R}}_{\alpha}\underline{\mathbb{h}}^{\bullet} \times {}^{\mathbb{R}}_{-\alpha}\underline{\mathbb{h}}^{\bullet} = {}^{\mathbb{R}}_{\pm\alpha}\underline{\mathbb{h}}_{1}^{\bullet} \times {}^{\mathbb{R}}_{\pm\alpha}\underline{\mathbb{h}}_{-}^{\bullet}$$

$$\Theta\, {}^{\mathbb{R}}_{\alpha}\underline{\mathbb{h}}^{\bullet} = {}^{\mathbb{R}}_{-\alpha}\underline{\mathbb{h}}^{\bullet}$$