$$\underline{ħ}\,\underset{\infty}{◹}\,ħ := \begin{cases} \underline{ħ} \times ħ \xleftarrow{\;ƀ = Ꞙ\upsilon = Ꞙr\;} ħ \\ \diagdown \; ⋈ \; ƀ = \diagup \end{cases} \in \mathbb{K}◺ \text{ Lie}$$

$$\underline{ħ}\,\underset{\infty}{◹}\,ħ \,⧗\, \underline{ħ}\,\underset{\infty}{◹}\,ħ \xrightarrow{\;⋇\;} \underline{ħ}\,\underset{\infty}{◹}\,ħ \ni ƀ ⋇ ƀ' = -ƀ' ⋇ ƀ$$

$$\underbrace{ƀ ⋇ ƀ'} ⋇ ƀ'' + \underbrace{ƀ' ⋇ ƀ''} ⋇ ƀ + \underbrace{ƀ'' ⋇ ƀ} ⋇ ƀ' = 0$$

$$ƀ ⋇ \underbrace{ꞁƀ'} = ꞁ\underbrace{ƀ ⋇ ƀ'} + \underbrace{ƀ ⋉ ꞁ}\, ƀ''$$

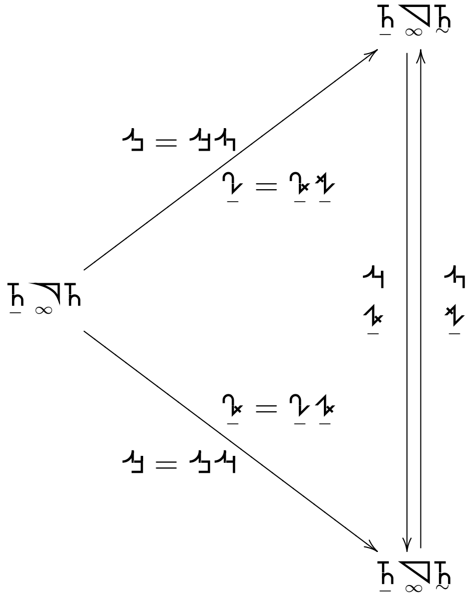
$$\underbrace{ꞁƀ} ⋇ ƀ'' = ꞁ\underbrace{ƀ ⋇ ƀ'} - \underbrace{ƀ' ⋉ ꞁ}\, ƀ$$

$$\underline{ħ}\,\underset{\infty}{◹}\,ħ \,⧖\, {}^{ħ}\underset{\infty}{◺}\mathbb{K} \xrightarrow[\text{Mod}]{} \underline{ħ}\,\underset{\infty}{◹}\,ħ$$

$$\underbrace{ꞁƀ}_{h} := {}^{h}ꞁ\, ƀ_{h}$$

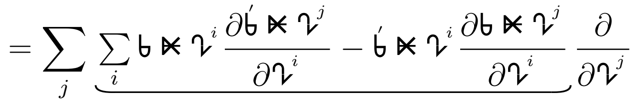
$$\underbrace{ꞁƀ}_{h}\, ꞁ = {}^{h}ꞁ\, \underbrace{ƀ_{h} ꞁ} \text{ Der}$$

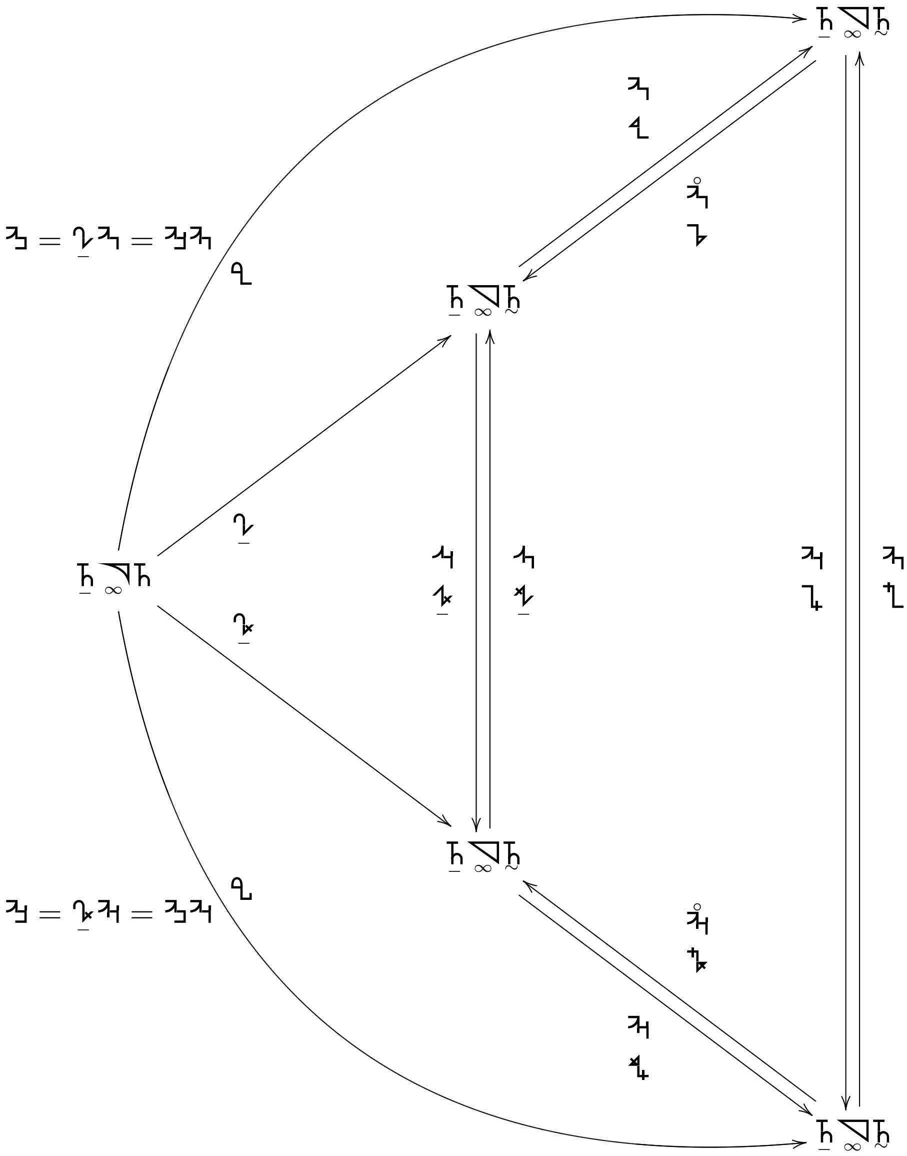
$$\underbrace{ꞁƀ} ⋉ ꞁ' = ꞁ\underbrace{ƀ ⋉ ꞁ'}$$

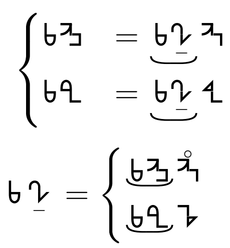


$$ƀ = \underbrace{ƀ\underline{ʋ}}\, \underline{ʋ}$$

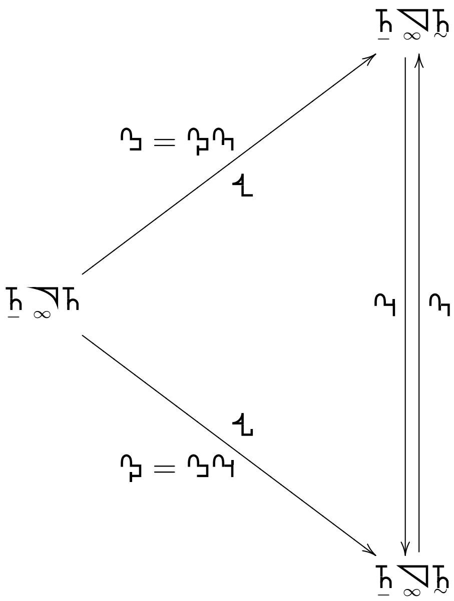
$$U{:}ʋ \text{ Karte } ƀ_U = \sum_i ƀ ⋉ ʋ^i \frac{\partial}{\partial ʋ^i} \underbrace{ƀ ⋇ ƀ'}_U = \sum_{ij} \underbrace{ƀ ⋉ ʋ^i \frac{\partial}{\partial ʋ^i} ƀ' ⋉ ʋ^j \frac{\partial}{\partial ʋ^j} - ƀ' ⋉ ʋ^i \frac{\partial}{\partial ʋ^i} ƀ ⋉ ʋ^j \frac{\partial}{\partial ʋ^j}}$$







[illegible]



U: [illegible] Karte [illegible]$_U = \sum_i$ [illegible]$^i \frac{\partial}{\partial [illegible]^i}$ [illegible]$_U = \sum_{ij}$ [illegible]

$= \sum_j \sum_i$ [illegible] $\frac{\partial}{\partial [illegible]^j}$