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$$[\text{illegible}] = [\text{illegible}]^{*}\eta\,[\text{illegible}]$$

$$[\text{illegible}] \longrightarrow G\left([\text{illegible}]\right)$$

$$[\text{illegible}] = [\text{illegible}]^{*}\eta\,[\text{illegible}]$$

$$[\text{illegible}] = \left([\text{illegible}]\right)[\text{illegible}]\left([\text{illegible}]'\right) = \left([\text{illegible}]\right)^{*}\eta\left([\text{illegible}]\right) = [\text{illegible}]^{*}[\text{illegible}]^{*}\eta\,[\text{illegible}] = [\text{illegible}]^{*}[\text{illegible}]' = \left([\text{illegible}]\right)[\text{illegible}]\left([\text{illegible}]\right)$$

$$[\text{illegible}]^{-1} = \left([\text{illegible}]\eta^{-1}[\text{illegible}]^{*}\right)^{-1} = [\text{illegible}]^{*}\eta\,[\text{illegible}] = [\text{illegible}]$$

$$ᒪ^{\cdot}\ {}_{\cdot}1 = ᒐ_{ɥ}\,{}^{ɥ}Ղ^{\cdot}\ {}_{\cdot}1 = 1^{\cdot}\ {}_{\cdot}Ղ^{\cdot}\ {}_{\cdot}1 = 1\,Ղ^{\cdot}\ {}_{\cdot}1$$

$${}^{ɥ}ᒪ^{\cdot}\ {}_{\cdot}1 = {}^{ɥ}Ղ\ ᒪ^{\cdot}\ {}_{\cdot}1 = {}^{ɥ}ᒪ^{\cdot}\ {}_{\cdot}Ղ^{\cdot}\ {}_{\cdot}1 = {}^{ɥ}ᒪ\ Ղ^{\cdot}\ {}_{\cdot}1$$

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$${}^{ɥ}ᒪ^{\cdot}\ {}_{\cdot}⅂ = {}^{ɥ}ᒪ\ ᒪ^{\cdot}\ {}_{\cdot}⅂ = {}^{ɥ}Ղ^{\cdot}\ {}_{\cdot}1^{\cdot}\ {}_{\cdot}⅂ = {}^{ɥ}Ղ\ 1^{\cdot}\ {}_{\cdot}⅂$$

$$Ղ^{\cdot}\ {}_{\cdot}1 = ᒪ^{\cdot}\ {}_{\cdot}Ղ^{\cdot}\ {}_{\cdot}1 = Ղ\ ᒪ^{\cdot}\ {}_{\cdot}1 = ᒐ_{ɥ}\,{}^{ɥ}Ղ^{\cdot}\ {}_{\cdot}1$$

$$1^{\cdot}\ {}_{\cdot}⅂ = ᒪ^{\cdot}\ {}_{\cdot}1^{\cdot}\ {}_{\cdot}⅂ = 1\ ᒪ^{\cdot}\ {}_{\cdot}⅂ = ᒐ_{ɥ}\,{}^{ɥ}ᒪ^{\cdot}\ {}_{\cdot}⅂$$

$$⅂ \ni ᒪ^{j} \quad \text{basis}$$

$$\overset{*}{ᒪ}{}^{i}\ ᒪ^{j} = {}_{i}\delta^{j} = {}_{i}ᒪ\ ᒪ^{j}$$

$$\overset{*}{ᒪ}{}^{i} = {}_{i}ᒪ$$

$$ᒪ^{i}\ ⅄\ ᒪ^{j} = \overset{*}{ᒪ}{}^{i}\ \eta\ ᒪ^{j} = {}_{i}ᒪ\ \eta\ ᒪ^{j} = {}_{i}\eta^{j}$$

$$ᒪ^{i}\ ⅄_{ɥ}\ ᒪ^{j} = \overset{*}{ᒪ}{}^{i}\ Ղ_{ɥ}\ ᒪ^{j} = {}_{i}ᒪ\ Ղ_{ɥ}\ ᒪ^{j} = {}_{i}Ղ_{ɥ}^{j}$$

$$⅂ \ni \overset{ɥ}{1}{}^{j} = \overset{ɥ}{1}\ ᒪ^{j} \quad \text{basis}$$

$$\overset{ɥ}{1}{}^{i}\ ⅄_{ɥ}\ \overset{ɥ}{1}{}^{j} = \left(\overset{ɥ}{1}ᒪ^{i}\right)^{*} \left(\overset{*}{Ղ}_{ɥ}\eta Ղ_{ɥ}\right) \overset{ɥ}{1}\ ᒪ^{j} = \overset{*}{ᒪ}{}^{i}\ \eta\ ᒪ^{j} = {}_{i}\eta^{j}$$

$$ɥ \xrightarrow[{}_{\cdot}Ղ^{\cdot}]{{}_{\cdot}1^{\cdot}} {}_{m}\mathbb{K}^{m}$$

$${}_{\cdot}Ղ_{ɥ}^{\cdot} = {}_{\cdot}\overset{*}{Ղ}{}_{ɥ}^{\cdot}\ {}_{\cdot}\eta^{\cdot}\ {}_{\cdot}Ղ_{ɥ}^{\cdot}$$

$${}^{ɥ}Ղ^{j} = {}^{ɥ}Ղ\ ᒪ^{j} \quad \text{basis}$$

$${}^{ɥ}ᒪ^{j} = {}^{ɥ}Ղ\ \overset{ɥ}{1}{}^{j} = {}^{ɥ}Ղ\ \overset{ɥ}{1}\ ᒪ^{j} = {}^{ɥ}ᒪ\ ᒪ^{j} \quad \text{basis}$$

$${}^{ɥ}ᒪ\ ⅄_{ɥ}\ {}^{ɥ}ᒪ^{j} = {}_{i}\eta^{j}$$