

$$\mathbb{K}^n \times_n \mathbb{I} \ni \begin{bmatrix} 1 \\ \vdots \\ n \end{bmatrix}$$

$$\begin{array}{ccc} & \mathbb{I} & \\ \uparrow & & \downarrow \\ \begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} & = & \begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} \\ & & \end{array}$$

$$\mathbb{K}^n \xrightarrow[\mathcal{A}]{} {}_n\mathbb{J}^n$$

$$\begin{array}{ccc} \mathbb{K}^n & \xrightarrow[\mathcal{A}_h]{\begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix}} & {}_{p:q}\mathbb{K}^{p:q} \\ \hline & \mathcal{A}_h = \begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} & \end{array}$$

$$\text{h} \text{A}^{\mu\nu} = \text{h}^{-*}_i \eta^{ij} \text{h}^{\circ\nu}_j$$

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$$\begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} = \begin{cases} \text{h} & \text{o} \\ \text{A} & \text{L} \end{cases}$$

$${}_i\delta^j = \begin{cases} \text{h}^k \text{A}^{\circ j} \\ \text{A}^k \text{h}^j \end{cases}$$

$$\begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} = \begin{cases} \text{h} & \text{o} \\ \text{A} & \text{L} \end{cases}$$

$${}_i\delta^j = \begin{cases} \text{h}^k \text{A}^{\circ j} \\ \text{A}^k \text{h}^j \end{cases}$$

$$\begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} \times \begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} = \begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} \eta^{ij} \begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} = \begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix} \eta^{ij} \begin{matrix} \text{h} & \text{o} \\ \text{A} & \text{L} \end{matrix}$$

$$\overset{h}{\cancel{\text{H}}} \times \overset{h}{\cancel{\text{H}}} = \begin{cases} \overset{h}{\cancel{\text{H}}} \times \overset{h}{\cancel{\text{H}}} = \overset{*}{\cancel{\text{H}}} \overset{h}{\cancel{\text{H}}} \overset{h}{\cancel{\text{H}}} = \mu \overset{*}{\cancel{\text{H}}} \overset{h}{\cancel{\text{H}}} \nu \overset{h}{\cancel{\text{H}}} \\ \overset{*}{\cancel{\text{H}}} \overset{h}{\cancel{\text{H}}} \times \overset{*}{\cancel{\text{H}}} \overset{h}{\cancel{\text{H}}} = \overset{*}{\cancel{\text{H}}} \overset{h}{\cancel{\text{H}}} \overset{h}{\cancel{\text{H}}} = \mu \overset{*}{\cancel{\text{H}}} \nu \overset{h}{\cancel{\text{H}}} \end{cases}$$