

$$\underbrace{\dot{p}^{p\pi}}_{\pi} \mathfrak{A}^{p\pi} = p \underbrace{\dot{p}^{p\mathfrak{A}}}_{\mathfrak{A}}$$

$$\begin{array}{ccc} P_{\underline{p}} & \xrightarrow[\text{tens}]{p\mathfrak{A}} & \mathbb{1} \\ \downarrow p_{\underline{\pi}} & & \downarrow p: \\ \mathfrak{h}_x & \xrightarrow[\mathfrak{A}]{x} & \mathbb{1}\times x \end{array}$$

$$p:\overbrace{\dot{p}_1\cdots\dot{p}_m}^{p\mathfrak{A}}=\dot{x}_1\cdots\dot{x}_m\mathfrak{A}^x$$

$$\dot{p}_1\dot{p}_2\mathfrak{A}^{p\widetilde{\Omega}}=\dot{p}_1\dot{p}_2\mathop{\widehat{d\mathfrak{A}}}^p+\frac{1}{2}\underbrace{\dot{p}_1^{p\mathfrak{A}}}_{\mathfrak{A}}\rtimes \underbrace{\dot{p}_2^{p\mathfrak{A}}}_{\mathfrak{A}}$$

$$\dot{x}_1\,\dot{x}_2\,\mathfrak{A}^x\Omega=\underbrace{\mathfrak{b}\underline{R}_g\mathfrak{A}^{g\pi}}_{\pi}\underbrace{\mathfrak{b}\underline{R}_g\mathfrak{A}^{g\pi}}_{\pi}\mathfrak{A}^{g\pi}\Omega\stackrel{\text{KN}}{\stackrel{76}{=}}\mathfrak{A}^{g\pi}\mathfrak{A}^{g\pi}\left(\mathfrak{b}\underline{R}_g\mathfrak{A}^{g\pi}\mathfrak{A}^{g\pi}\widetilde{\Omega}\right)=\mathfrak{A}^{g\pi}\left(\mathfrak{b}\underline{R}_g\mathfrak{A}^{g\pi}\mathfrak{A}^{g\pi}\mathop{\widehat{d\widetilde{\Omega}}}^g+\frac{1}{2}\overbrace{\mathfrak{b}\underline{R}_g\mathfrak{A}^{g\mathfrak{A}}}^{g\mathfrak{A}}\rtimes\overbrace{\mathfrak{b}\underline{R}_g\mathfrak{A}^{g\mathfrak{A}}}^{g\mathfrak{A}}\right)$$