



$$\eta|\xi \mapsto \dot{\eta}\xi$$

$$x = \dot{\eta}\xi = \overset{*}{\tau} \overset{2}{\lambda} \sigma$$

$$u = \overset{*}{\tau} \sigma$$

$$\dot{u}x = \overset{*}{\sigma} \overset{2}{\tau} \overset{2}{\lambda} \sigma = \overset{*}{\sigma} \overset{2}{\lambda} \sigma = \overset{*}{\xi} \xi$$

$$x \dot{u} = \overset{*}{\tau} \overset{2}{\lambda} \overset{2}{\sigma} \overset{*}{\tau} = \overset{*}{\tau} \overset{2}{\lambda} \tau = \overset{*}{\eta} \eta$$

$$\dot{u}x \dot{u} = \overset{*}{\sigma} \overset{2}{\tau} \overset{*}{\tau} \overset{2}{\lambda} \overset{2}{\sigma} \overset{*}{\tau} = \overset{*}{\sigma} \overset{2}{\lambda} \tau = \overset{*}{\xi} \eta$$

$$(\overset{T}{g}\sigma) (\overset{T}{g}^{-1}\tau) = \overset{T}{\sigma} \overset{T}{g} \overset{T}{g}^{-1} \tau = \overset{T}{\sigma} \tau$$

$$\dim_{\mathbb{C}} {}_r \mathbb{C}_r^{\mathbb{C}} = \ell + \ell(\ell - 1) + 2\ell(r - \ell) = \ell^2 + 2\ell(r - \ell) = 2\ell r - \ell^2$$

$$\dim_{\mathbb{C}} \ell \mathbb{C}_\ell^{\mathbb{C}} = \ell^2$$