

$$\vartheta_3^{\mathbb{R}} = \frac{\vartheta_3}{0} \Big| \frac{0}{\vartheta_3^{\sim}}$$

$$\vartheta_3 = \frac{\vartheta_{\mathbf{z}} \frac{1}{0} \Big| \frac{0}{1} + \varepsilon^* \lambda \varepsilon_{\mathbf{z}} \frac{d^*}{0} \Big| \frac{0}{\check{e}e}}{\varepsilon^* \lambda \varepsilon_{\mathbf{z}} \check{u}d \Big| 0} \Big| \frac{\varepsilon^* \lambda \varepsilon_{\mathbf{z}} \check{d}u \Big| 0}{\bar{\vartheta} \mathbf{z} 1 + \varepsilon^* \lambda \varepsilon_{\mathbf{z}} \check{u}u} \Big| \frac{\Gamma \eta_{\mathbf{z}} \frac{d^*}{0} \Big| \frac{0}{\check{e}}}{\Gamma \eta_{\mathbf{z}} \check{u} \Big| 0}$$

$$\vartheta_3^{\sim} = \frac{\bar{\vartheta}_a \mathbf{z} \frac{a}{0} \Big| \frac{0}{0} + \bar{\vartheta} \mathbf{z} \frac{0}{0} \Big| \frac{0}{1}}{0} \Big| \frac{0}{\bar{\vartheta}_a \mathbf{z} a} \Big| \frac{0}{0}$$

$$\vartheta \in \mathfrak{h}_{\Delta} \mathfrak{h}_{\Delta}^2 \mathbb{K}: \quad \Theta \in \mathfrak{h}_{\Delta} \mathfrak{h}_{\Delta}^2 \mathbb{K}_2: \quad \vartheta_a \mathbf{z} a \in \mathfrak{h}_{\Delta} \mathfrak{h}_{\Delta}^3 \mathbb{K}_3$$

$$\xi \in \mathfrak{h}_{\Delta} \mathfrak{h}_{\Delta}^2 \mathbb{K}: \quad \eta \in \mathfrak{h}_{\Delta} \mathfrak{h}_{\Delta} \mathbb{K}_2: \quad \lambda \in \mathfrak{h}_{\Delta} \mathbb{K}: \quad \Lambda \in \mathfrak{h}_{\Delta}^2 \mathbb{K}_2$$

$$\frac{a}{c} \Big| \frac{b}{d} \sim = \frac{\bar{d}}{-\bar{b}} \Big| \frac{-\bar{c}}{\bar{a}} \Rightarrow (AB)_{\sim} = A_{\sim} B_{\sim}$$

$$\Lambda_{\mathbf{z}} \frac{d^*}{0} \Big| \frac{0}{e\check{e}} + \varkappa \Lambda_{\mathbf{z}} \frac{u\check{u}}{0} \Big| \frac{0}{0} = \frac{\Lambda + \Lambda_{\mathbf{z}}}{2} \frac{d^* + u\check{u}}{0} \Big| \frac{0}{e\check{e}} + \frac{\Lambda - \Lambda_{\mathbf{z}}}{2} \frac{d^* - u\check{u}}{0} \Big| \frac{0}{e\check{e}}$$

$$\omega_3^0 \omega_3^1$$

$$= \frac{\omega^0 \times \omega^1 \mathbf{z} \frac{1}{0} \Big| \frac{0}{1} + \psi^0 \varphi^1 \mathbf{z} \frac{d^*}{0} \Big| \frac{0}{\check{e}e}}{\psi^0 \varphi^1 \mathbf{z} \check{u}d \Big| 0} \Big| \frac{\psi^0 \varphi^1 \mathbf{z} \check{d}u}{\bar{\omega}^0 \times \bar{\omega}^1 \mathbf{z} 1 + \psi^0 \varphi^1 \mathbf{z} \check{u}u} \Big| \frac{\Gamma(\psi^0 \Omega^1 - \omega^0 \psi^1) \mathbf{z} \frac{d^*}{0} \Big| \frac{0}{\check{e}}}{\Gamma(\psi^0 \Omega^1 - \bar{\omega}^0 \psi^1) \mathbf{z} \check{u} \Big| 0}$$

$$\left( \Omega^0 \varphi^1 - \varphi^0 \omega^1 \right) \Gamma \mathbf{z} \frac{d}{0} \Big| \frac{0}{e} \Big| \left( \Omega^0 \varphi^1 - \varphi^0 \bar{\omega}^1 \right) \Gamma \mathbf{z} \frac{u}{0} \Big| \frac{0}{0} \Big| \Omega^0 \times \Omega^1 \mathbf{z} \frac{1}{0} \Big| \frac{0}{1} + \varphi^0 \psi^1 \mathbf{z} \frac{d^*}{0} \Big| \frac{0}{e\check{e}} + \varphi^0 \psi^1 \mathbf{z} \frac{u\check{u}}{0} \Big| \frac{0}{0}$$

$$\tilde{\omega}_3^0 \tilde{\omega}_3^1 = \frac{\bar{\omega}_b^0 \times \bar{\omega}_c^1 \mathbf{z} \frac{\bar{b}\bar{c}}{0} \Big| \frac{0}{0} + \bar{\omega}^0 \times \bar{\omega}^1 \mathbf{z} \frac{0}{0} \Big| \frac{0}{1}}{0} \Big| \frac{0}{\bar{\omega}_b^0 \times \bar{\omega}_c^1 \mathbf{z} \bar{b}\bar{c}} \Big| \frac{0}{0}$$

$$\vartheta = \omega^0 \times \omega^1: \quad \Theta = \Omega^0 \times \Omega^1: \quad \vartheta_a \mathbf{z} a = \omega_b^0 \times \omega_c^1 \mathbf{z} bc$$

$$\xi = \Omega^0 \varphi^1 - \varphi^0 \omega^1 \Rightarrow \xi = \Omega^0 \varphi^1 - \varphi^0 \bar{\omega}^1: \quad \eta = \psi^0 \Omega^1 - \omega^0 \psi^1 \Rightarrow \eta = \psi^0 \Omega^1 - \bar{\omega}^0 \psi^1$$

$$\Lambda = \varphi^0 \psi^1 \Rightarrow \Lambda = \varphi^0 \bar{\psi}^1: \quad \lambda = \frac{\psi^0 \varphi^1 | \psi^0 \varphi^1}{\psi^0 \varphi^1 | \psi^0 \varphi^1} \Rightarrow \lambda = \lambda$$

$$\begin{aligned} & \left( \vartheta_{\mathbf{z}} \frac{1}{0} \Big| \frac{0}{1} + \varkappa \varepsilon^* \lambda \varepsilon_{\mathbf{z}} \frac{d\bar{d}}{0} \Big| \frac{0}{\bar{e}e} \right) \left( \vartheta'_{\mathbf{z}} \frac{1}{0} \Big| \frac{0}{1} + \varkappa \varepsilon^* \lambda' \varepsilon_{\mathbf{z}} \frac{d\bar{d}}{0} \Big| \frac{0}{\bar{e}e} \right) I_{\mathbf{z}} \frac{x/3}{0} \Big| \frac{0}{y} \\ &= \left( \bar{\vartheta}_{\mathbf{z}} \frac{1}{0} \Big| \frac{0}{1} + \varkappa \varepsilon^* \lambda \varepsilon_{\mathbf{z}} \frac{d\bar{d}}{0} \Big| \frac{0}{\bar{e}e} \right) \left( \bar{\vartheta}'_{\mathbf{z}} \frac{x/3}{0} \Big| \frac{0}{y} + \varkappa \varepsilon^* \lambda' \varepsilon_{\mathbf{z}} \frac{d\bar{d}x/3}{0} \Big| \frac{0}{\bar{e}ey} \right) \\ &= \bar{\vartheta} \times \vartheta'_{\mathbf{z}} \frac{x/3}{0} \Big| \frac{0}{y} + \varkappa \left( \varepsilon^* \lambda \varepsilon \vartheta' + \bar{\vartheta} \varepsilon^* \lambda' \varepsilon \right)_{\mathbf{z}} \frac{d\bar{d}x/3}{0} \Big| \frac{0}{\bar{e}ey} + \varepsilon^* \lambda \varepsilon \varepsilon^* \lambda' \varepsilon_{\mathbf{z}} \frac{d\bar{d}d\bar{d}x/3}{0} \Big| \frac{0}{\bar{e}e\bar{e}ey} \\ & \quad \left( \bar{\vartheta}_{\mathbf{z}} 1 + \varkappa \varepsilon^* \lambda \varepsilon_{\mathbf{z}} \bar{u} \right) \left( \bar{\vartheta}'_{\mathbf{z}} 1 + \varkappa \varepsilon^* \lambda' \varepsilon_{\mathbf{z}} \bar{u} \right) I_{\mathbf{z}} x/3 \\ &= \left( \vartheta_{\mathbf{z}} 1 + \varkappa \varepsilon^* \lambda \varepsilon_{\mathbf{z}} \bar{u} \right) \left( \vartheta'_{\mathbf{z}} x/3 + \varkappa \varepsilon^* \lambda' \varepsilon_{\mathbf{z}} \bar{u} x/3 \right) \\ &= \vartheta \times \bar{\vartheta}'_{\mathbf{z}} x/3 + \varkappa \left( \varepsilon^* \lambda \varepsilon \bar{\vartheta}' + \vartheta \varepsilon^* \lambda' \varepsilon \right)_{\mathbf{z}} \bar{u} x/3 + \varepsilon^* \lambda \varepsilon \varepsilon^* \lambda' \varepsilon_{\mathbf{z}} \bar{u} \bar{u} x/3 \end{aligned}$$

$$\left( \Theta_{\mathbf{z}} \frac{1}{0} \Big| \frac{0}{1} + \varkappa \Lambda_{\mathbf{z}} \frac{d\bar{d}}{0} \Big| \frac{0}{e\bar{e}} + \varkappa \Lambda_{\mathbf{z}} \frac{u\bar{u}}{0} \Big| \frac{0}{0} \right) \left( \Theta'_{\mathbf{z}} \frac{1}{0} \Big| \frac{0}{1} + \varkappa \Lambda'_{\mathbf{z}} \frac{d\bar{d}}{0} \Big| \frac{0}{e\bar{e}} + \varkappa \Lambda'_{\mathbf{z}} \frac{u\bar{u}}{0} \Big| \frac{0}{0} \right) I_{\mathbf{z}} \frac{x/3}{0} \Big| \frac{0}{y}$$

$$= \left( \bar{\Theta}_{\mathbf{z}} \frac{1}{0} \Big| \frac{0}{1} + \varkappa \bar{\Lambda}_{\mathbf{z}} \frac{d\bar{d}}{0} \Big| \frac{0}{e\bar{e}} + \varkappa \bar{\Lambda}_{\mathbf{z}} \frac{u\bar{u}}{0} \Big| \frac{0}{0} \right) \left( \bar{\Theta}'_{\mathbf{z}} \frac{x/3}{0} \Big| \frac{0}{y} + \varkappa \bar{\Lambda}'_{\mathbf{z}} \frac{d\bar{d}x/3}{0} \Big| \frac{0}{e\bar{e}y} + \varkappa \bar{\Lambda}'_{\mathbf{z}} \frac{u\bar{u}x/3}{0} \Big| \frac{0}{0} \right)$$

$$= \bar{\Theta} \times \Theta'_{\mathbf{z}} \frac{x/3}{0} \Big| \frac{0}{y} + \varkappa \left( \bar{\Theta} \Lambda' + \bar{\Lambda} \Theta' \right)_{\mathbf{z}} \frac{d\bar{d}x/3}{0} \Big| \frac{0}{e\bar{e}y} + \varkappa \left( \bar{\Theta} \Lambda' + \bar{\Lambda} \Theta' \right)_{\mathbf{z}} \frac{u\bar{u}x/3}{0} \Big| \frac{0}{0} + \bar{\Lambda} \Lambda'_{\mathbf{z}} \frac{d\bar{d}d\bar{d}x/3}{0} \Big| \frac{0}{e\bar{e}e\bar{e}y}$$

$$+ \bar{\Lambda} \Lambda'_{\mathbf{z}} \frac{d\bar{d}u\bar{u}x/3}{0} \Big| \frac{0}{0} + \bar{\Lambda} \Lambda'_{\mathbf{z}} \frac{u\bar{u}d\bar{d}x/3}{0} \Big| \frac{0}{0} + \bar{\Lambda} \Lambda'_{\mathbf{z}} \frac{u\bar{u}u\bar{u}x/3}{0} \Big| \frac{0}{0} \left( \bar{\vartheta}_b \frac{\bar{b}}{0} \Big| \frac{0}{0} + \bar{\vartheta}_{\mathbf{z}} \frac{0}{0} \Big| \frac{0}{1} \right) \left( \bar{\vartheta}'_c \frac{\bar{c}}{0} \Big| \frac{0}{0} + \bar{\vartheta}'_{\mathbf{z}} \frac{0}{0} \Big| \frac{0}{1} \right)$$

$$\left( \vartheta_b \frac{b^t}{0} \Big| \frac{0}{0} + \vartheta_{\mathbf{z}} \frac{0}{0} \Big| \frac{0}{1} \right) \left( \bar{\vartheta}'_c \frac{\bar{c}x^{\sim}}{0} \Big| \frac{0}{0} + \bar{\vartheta}'_{\mathbf{z}} \frac{0}{0} \Big| \frac{0}{y^{\sim}} \right) =$$

$$\vartheta_b \times \bar{\vartheta}'_c \frac{\bar{b}^{\sim} x^{\sim}}{0} \Big| \frac{0}{0} + \vartheta \times \bar{\vartheta}'_{\mathbf{z}} \frac{0}{0} \Big| \frac{0}{y^{\sim}}$$

$$\left( \bar{\vartheta}_b \frac{\bar{b}}{0} \right) \left( \bar{\vartheta}'_c \frac{\bar{c}}{0} \right) I_{\mathbf{z}} x^{\sim} = \left( \vartheta_b \frac{b^t}{0} \right) \left( \bar{\vartheta}'_c \frac{\bar{c}x^{\sim}}{0} \right) = \vartheta_b \times \bar{\vartheta}'_c \mathbf{z} b^t \bar{c} x^{\sim}$$

$$\left( \bar{\vartheta}_b \frac{\bar{b}}{0} \Big| \frac{0}{0} + \bar{\vartheta}_{\mathbf{z}} \frac{0}{0} \Big| \frac{0}{1} \right) \left( \bar{\vartheta}'_c \frac{\bar{c}}{0} \Big| \frac{0}{0} + \bar{\vartheta}'_{\mathbf{z}} \frac{0}{0} \Big| \frac{0}{1} \right) I_{\mathbf{z}} \frac{x^{\sim}}{0} \Big| \frac{0}{y^{\sim}} =$$

$$\begin{aligned}
& \left( \vartheta_b \mathbf{z} \frac{b^t}{0} \middle| \frac{0}{0} + \vartheta \mathbf{z} \frac{0}{0} \middle| \frac{0}{1} \right) \left( \bar{\vartheta}'_c \mathbf{z} \frac{\bar{c}x^\sim}{0} \middle| \frac{0}{0} + \bar{\vartheta}' \mathbf{z} \frac{0}{0} \middle| \frac{0}{y^\sim} \right) = \\
& \quad \vartheta_b \times \bar{\vartheta}'_c \mathbf{z} \frac{\bar{b}^\flat x^\sim}{0} \middle| \frac{0}{0} + \vartheta \times \bar{\vartheta}' \mathbf{z} \frac{0}{0} \middle| \frac{0}{y^\sim} \\
& \quad (\varkappa \varepsilon^* \lambda \varepsilon \mathbf{z} [\dot{u}d \ 0]) (\varkappa \varepsilon^* \lambda' \varepsilon \mathbf{z} [\dot{u}d \ 0]) I \mathbf{z} \frac{x/3}{0} \middle| \frac{0}{y} = \\
& \left( \varepsilon^* \lambda \varepsilon \mathbf{z} \frac{\dot{d}u}{0} \right) (\varkappa \varepsilon^* \lambda' \varepsilon \mathbf{z} [\dot{u}dx/3 \ 0]) = \varepsilon^* \lambda \varepsilon \varepsilon^* \lambda' \varepsilon \mathbf{z} \frac{\dot{d}u \dot{u}dx/3}{0} \middle| \frac{0}{0} \left( \varkappa \varepsilon^* \lambda \varepsilon \mathbf{z} \frac{\dot{d}u}{0} \right) \left( \varkappa \varepsilon^* \lambda' \varepsilon \mathbf{z} \frac{\dot{d}u}{0} \right) I \mathbf{z} x/3 = \\
& \quad \left( \varepsilon^* \lambda \varepsilon \mathbf{z} [\dot{u}d \ 0] \right) \left( \varepsilon^* \lambda' \varepsilon \mathbf{z} \left[ \frac{\dot{d}ux/3}{0} \right] \right) = \varepsilon^* \lambda \varepsilon \varepsilon^* \lambda' \varepsilon \mathbf{z} \dot{u} d \dot{d}ux/3 \\
& \left( \xi \Gamma \mathbf{z} \frac{d}{0} \middle| \frac{0}{e} \right) \left( \xi' \Gamma \mathbf{z} \frac{d}{0} \middle| \frac{0}{e} \right) I \mathbf{z} \frac{x/3}{0} \middle| \frac{0}{y} = \left( \Gamma \xi^* \mathbf{z} \frac{d}{0} \middle| \frac{0}{\check{e}} \right) \left( \xi' \Gamma \mathbf{z} \frac{dx/3}{0} \middle| \frac{0}{ey} \right) = \\
& \quad -\varkappa \xi^* \times \xi' \mathbf{z} \frac{\dot{d}dx/3}{0} \middle| \frac{0}{\check{e}ey} \\
& \left( \xi \Gamma \mathbf{z} \frac{u}{0} \right) \left( \xi' \Gamma \mathbf{z} \frac{u}{0} \right) I \mathbf{z} x/3 = \left( \Gamma \xi^* \mathbf{z} \dot{u} \middle| 0 \right) \left( \xi' \Gamma \mathbf{z} \left[ \frac{ux/3}{0} \right] \right) = -\varkappa \xi^* \times \xi' \mathbf{z} \dot{u} ux/3 \\
& \left( \varkappa \Gamma \eta \mathbf{z} \frac{\dot{d}}{0} \middle| \frac{0}{\check{e}} \right) \left( \varkappa \Gamma \eta \mathbf{z} \frac{\dot{d}}{0} \middle| \frac{0}{\check{e}} \right) I \mathbf{z} \frac{x/3}{0} \middle| \frac{0}{y} = \left( \check{\eta} \Gamma \mathbf{z} \frac{d}{0} \middle| \frac{0}{e} \right) \left( \Gamma \eta \mathbf{z} \frac{\dot{d}x/3}{0} \middle| \frac{0}{\check{e}} \right) = -\varkappa \check{\eta} \times \eta \mathbf{z} \frac{\dot{d}dx/3}{0} \middle| \frac{0}{\check{e}\check{e}y} \\
& \quad (\varkappa \Gamma \eta \mathbf{z} \dot{u} \middle| 0) (\varkappa \Gamma \eta \mathbf{z} \dot{u} \middle| 0) I \mathbf{z} \frac{x/3}{0} \middle| \frac{0}{y} = \\
& \left( \check{\eta} \Gamma \mathbf{z} \frac{u}{0} \right) (\Gamma \eta \mathbf{z} [\dot{u}x/3 \ 0]) = -\varkappa \check{\eta} \times \eta \mathbf{z} \frac{u \dot{u}x/3}{0} \middle| \frac{0}{0} \frac{\vartheta_3}{0} \middle| \frac{0}{\vartheta_3} \times \frac{\vartheta_3}{0} \middle| \frac{0}{\vartheta_3} = \text{ReTr} \left( \check{\vartheta}_3 \vartheta_3 I_3 + (\check{\vartheta}_3^\sim) \vartheta_3^\sim I_3 \right) = \\
& s \vartheta \mathbf{z} \vartheta' + t \Theta \mathbf{z} \Theta' + 4 \text{tr } x^\sim \vartheta_b \mathbf{z} b \mathbf{z} \vartheta'_c \mathbf{z} c + r \varkappa (\vartheta \mathbf{z} \varepsilon^* \lambda' \varepsilon + \varepsilon^* \lambda \varepsilon \mathbf{z} \vartheta' + \Theta \mathbf{z} \Lambda' + \Lambda \mathbf{z} \Theta' - \xi \mathbf{z} \xi' - \xi \mathbf{z} \eta \eta') + \underbrace{\left( \dot{d} \right)^2 x + (\dot{u}u)^2 x + \left( \dot{d} \dot{d} \dot{d} u x \right)}_{2 \dot{d} \dot{d} \dot{d} u x} (\varepsilon^* \lambda \varepsilon \mathbf{z} \varepsilon^* \lambda' \varepsilon + \Lambda \mathbf{z} \Lambda') \\
& r = \underline{\dot{d}dx + \dot{u}ux + \check{e}ey} : \quad s = \underline{2x + y + 3y^\sim} : \quad t = \underline{x + y} \\
\underline{\check{\vartheta}_3 \vartheta_3 I_3} = \text{tr } (x + y) \vartheta \mathbf{z} \vartheta' + \text{tr } x \bar{\vartheta} \mathbf{z} \bar{\vartheta}' + \text{tr } y^\sim \bar{\vartheta} \mathbf{z} \bar{\vartheta}' + 2 \text{tr } y^\sim \bar{\vartheta} \mathbf{z} \bar{\vartheta}' + \text{tr } (x + y) \Theta \mathbf{z} \Theta' \\
\text{tr } b^t \bar{c} x^\sim \bar{\vartheta}_b \mathbf{z} \bar{\vartheta}'_c + \text{tr } b^t \bar{c} x^\sim \bar{\vartheta}_b \mathbf{z} \bar{\vartheta}'_c + 2 \text{tr } b^t \bar{c} x^\sim \bar{\vartheta}_b \mathbf{z} \bar{\vartheta}'_c
\end{aligned}$$

$$\begin{aligned}
& \varkappa \underline{ddx + \check{e}ey} (\check{\varepsilon} \lambda \varepsilon \mathfrak{K} \vartheta' + \vartheta \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon) + \varkappa \underline{\check{u}ux} (\check{\varepsilon} \lambda \varepsilon \mathfrak{K} \bar{\vartheta}' + \bar{\vartheta} \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon) \\
& \varkappa \operatorname{tr} d \check{d} x + e \check{e} y (\Theta \mathfrak{K} \Lambda' + \Lambda \mathfrak{K} \Theta') + \varkappa \operatorname{tr} u \check{u} x (\Theta \mathfrak{K} \Lambda' + \Lambda \mathfrak{K} \Theta') \\
& \underline{\left( \check{d} \right)^2 x + \left( \check{e} e \right)^2 y} \check{\varepsilon} \lambda \varepsilon \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon + \operatorname{tr} \left( \check{u} u \right)^2 x \check{\varepsilon} \lambda \varepsilon \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon + \operatorname{tr} \check{d} u \check{u} d x \check{\varepsilon} \lambda \varepsilon \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon + \underline{\check{u} d d u x} \check{\varepsilon} \lambda \varepsilon \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon \\
& \underline{\left( \check{d} \right)^2 x + \left( \check{e} \check{e} \right)^2 y} \Lambda \mathfrak{K} \Lambda' + \underline{\check{u} \check{u} d d x} \Lambda \mathfrak{K} \Lambda' + \underline{\left( \check{u} \check{u} \right)^2 x} \Lambda \mathfrak{K} \Lambda' + \underline{\check{d} \check{d} u \check{u} x} \Lambda \mathfrak{K} \Lambda' \\
& - \varkappa \underline{ddx + \check{e}ey} \xi \mathfrak{K} \xi' - \varkappa \underline{\check{u}ux} \xi \mathfrak{K} \xi' - \varkappa \underline{ddx + e\check{e}y} \xi \mathfrak{K} \eta' - \varkappa \underline{u\check{u}x} \xi \mathfrak{K} \eta'
\end{aligned}$$

$$\vartheta \mathfrak{K} \vartheta' = \bar{\vartheta} \mathfrak{K} \bar{\vartheta}'$$

$$\bar{\vartheta}_b \mathfrak{K} \bar{b} \mathfrak{K} \bar{\vartheta}'_c \mathfrak{K} \bar{c} = \vartheta_b \mathfrak{K} b \mathfrak{K} \vartheta'_c \mathfrak{K} c$$

$$\check{\varepsilon} \lambda \varepsilon \mathfrak{K} \vartheta' = \check{\varepsilon} \lambda \varepsilon \mathfrak{K} \bar{\vartheta}' \vartheta \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon = \bar{\vartheta} \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon$$

$$\Theta \mathfrak{K} \Lambda' = \Theta \mathfrak{K} \Lambda': \quad \Lambda \mathfrak{K} \Theta' = \Lambda \mathfrak{K} \Theta'$$

$$\check{\varepsilon} \lambda \varepsilon \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon = \check{\varepsilon} \lambda \varepsilon \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon \check{\varepsilon} \lambda \varepsilon \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon = \check{\varepsilon} \lambda \varepsilon \mathfrak{K} \check{\varepsilon} \lambda' \varepsilon$$

$$\Lambda \mathfrak{K} \Lambda' = \Lambda \mathfrak{K} \Lambda': \quad \Lambda \mathfrak{K} \Lambda' = \Lambda \mathfrak{K} \Lambda': \quad \xi \mathfrak{K} \xi' = \xi: \quad \xi T f \eta' = \xi T f \eta'$$

$$s = \operatorname{tr} (2x + Y + 3Y^\sim) = 6x + \operatorname{tr} Y + 3 \operatorname{tr} Y^\sim = 6x + y + 3y^\sim: \quad t = \operatorname{tr} (x + Y) = 3x + \operatorname{tr} Y = 3x + y: \quad r = \underline{d^2 x + u^2}$$

$$\pi_2 d\pi_1^{-1} \frac{\omega_3}{0} \Big| \frac{0}{\omega_3} \cong \frac{\vartheta_3}{0} \Big| \frac{0}{\vartheta_3}$$

$$\vartheta_3 = \frac{\begin{array}{c|c|c} (f + d\omega) \mathbf{x} \frac{1}{0} \Big| \frac{0}{1} + \\ \mathbf{x} (\dot{\xi}\varphi + \psi\varepsilon) \mathbf{x} \frac{d}{0} \Big| \frac{0}{\dot{e}e} \end{array}}{\begin{array}{c|c|c} \mathbf{x} (\dot{\xi}\Omega - \omega\dot{\xi} - d\psi) \mathbf{x} [\dot{u}d \ 0] \\ (d\varphi + \Omega\varepsilon - \varepsilon\omega) \Gamma \mathbf{x} \frac{d}{0} \Big| \frac{0}{e} \end{array}} \frac{\begin{array}{c|c|c} \mathbf{x} (\dot{\xi}\varphi + \psi\varepsilon) \mathbf{x} \frac{\dot{d}u}{0} \\ (\bar{f} + d\bar{\omega}) \mathbf{x} 1 + \\ \mathbf{x} (\dot{\xi}\varphi + \psi\varepsilon) \mathbf{x} \dot{u}u \end{array}}{\begin{array}{c|c|c} \mathbf{x} \Gamma \eta \mathbf{x} \dot{u} \Big| 0 \\ (d\varphi + \Omega\varepsilon - \varepsilon\omega) \Gamma \mathbf{x} \frac{u}{0} \end{array}} \frac{\begin{array}{c|c|c} \mathbf{x} \Gamma (\dot{\xi}\Omega - \omega\dot{\xi} - d\psi) \mathbf{x} \frac{\dot{d}}{0} \Big| \frac{0}{\dot{e}} \\ (F + d\Omega) \mathbf{x} \frac{1}{0} \Big| \frac{0}{1} + \\ G \mathbf{x} \frac{d\dot{d} - u\dot{u}}{0} \Big| \frac{0}{e\dot{e}} + \\ \mathbf{x} \frac{\varepsilon\psi + \varphi\dot{\xi} + \varepsilon\psi + \varphi\dot{\xi}}{2} \mathbf{x} \frac{d\dot{d} + u\dot{u}}{0} \Big| \frac{0}{e\dot{e}} \end{array}}{\begin{array}{c|c|c} (\bar{f}_a + d\bar{\omega}_a) \mathbf{x} \frac{a}{0} \Big| \frac{0}{0} + (\bar{f} + d\bar{\omega}) \mathbf{x} \frac{0}{0} \Big| \frac{0}{1} \\ 0 \\ 0 \end{array}} \frac{\begin{array}{c|c|c} 0 \\ (\bar{f}_a + d\bar{\omega}_a) \mathbf{x} a \\ 0 \end{array}}{\begin{array}{c|c|c} 0 \\ (\bar{f}_a + d\bar{\omega}_a) \mathbf{x} \frac{a}{0} \Big| \frac{0}{0} + (\bar{f} + d\bar{\omega}) \mathbf{x} \frac{0}{0} \Big| \frac{0}{1} \end{array}}$$

$$F \in \mathfrak{h}_{\infty}^2 \mathbb{K}_2: f \in \mathfrak{h}_{\infty} \mathbb{K}: f_a \mathbf{x} a \in \mathfrak{h}_{\infty}^3 \mathbb{K}_3$$

$$G = \frac{g_1}{g_2} \Big| \frac{g_2}{-g_1} \in \mathfrak{h}_{\infty}^2 \mathbb{K}_2$$

$$\pi \left( df_3^0 \right) \pi \left( df_3^1 \right) =$$

$df^0 \times df^1 \mathbf{z} \frac{1}{0} \Big  \frac{0}{1} +$ $\varkappa \left( \overset{*}{\varepsilon} F^0 - f^0 \overset{*}{\varepsilon} \right) \left( \varepsilon f^1 - F^1 \varepsilon \right) \mathbf{z} \frac{dd}{0} \Big  \frac{0}{\overset{*}{\varepsilon} e}$	$\varkappa \left( \overset{*}{\varepsilon} F^0 - f^0 \overset{*}{\varepsilon} \right) \left( \varepsilon \bar{f}^1 - F^1 \varepsilon \right) \mathbf{z} \frac{du}{0}$	$\varkappa \Gamma \left( \overset{*}{\varepsilon} F^0 - f^0 \overset{*}{\varepsilon} \right) dF^1$
$\varkappa \left( \overset{*}{\varepsilon} F^0 - \bar{f}^0 \overset{*}{\varepsilon} \right) \left( \varepsilon f^1 - F^1 \varepsilon \right) \mathbf{z} [\overset{*}{u} d \quad 0]$	$d\bar{f}^0 \times d\bar{f}^1 \mathbf{z} 1 +$ $\varkappa \left( \overset{*}{\varepsilon} F^0 - f^0 \overset{*}{\varepsilon} \right) \left( \varepsilon f^1 - F^1 \varepsilon \right) \mathbf{z} \overset{*}{u} u$	$\varkappa \Gamma \left( \overset{*}{\varepsilon} F^0 - \bar{f}^0 \overset{*}{\varepsilon} \right) dF^1 - d\bar{f}^1$
$(dF^0 (\varepsilon f^1 - F^1 \varepsilon) - (\varepsilon f^0 - F^0 \varepsilon) df^1) \Gamma \mathbf{z} \frac{d}{0} \Big  \frac{0}{e}$	$(dF^0 (\varepsilon \bar{f}^1 - F^1 \varepsilon) - (\varepsilon \bar{f}^0 - F^0 \varepsilon) d\bar{f}^1) \Gamma \mathbf{z} \frac{u}{0}$	$dF^0 \times d\bar{f}^1$ $\varkappa (\varepsilon f^0 - F^0 \varepsilon) (\varepsilon f^1 - F^1 \varepsilon)$ $+ \varkappa (\varepsilon \bar{f}^0 - F^0 \varepsilon) (\varepsilon \bar{f}^1 - F^1 \varepsilon)$

$$\vartheta = df^0 \times df^1 \omega = f^0 df^1 \Rightarrow d\omega = df^0 \mathbf{z} df^1 = \vartheta^1 \Rightarrow \vartheta = dw^1 + f: \quad \Theta = dF^0 \times dF^1 \Omega = F^0 dF^1 \Rightarrow d\Omega = dF^0 \mathbf{z} dF^1$$

$$\varphi = F^0 \underline{\varepsilon f^1 - F^1 \varepsilon} \Rightarrow d\varphi + \Omega \varepsilon - \varepsilon \omega = dF^0 \underline{\varepsilon f^1 - F^1 \varepsilon} + F^0 \underline{\varepsilon df^1 - dF^1 \varepsilon} + F^0 dF^1 \varepsilon - \varepsilon f^0 df^1 = dF^0 (\varepsilon f^1 - F^1 \varepsilon) + (F^0 \varepsilon df^1 - dF^1 \varepsilon)$$

$$\psi = f^0 \underline{\overset{*}{\varepsilon} F^1 - f^1 \overset{*}{\varepsilon}} \Rightarrow \overset{*}{\varepsilon} \Omega - \omega \overset{*}{\varepsilon} - d\psi = \overset{*}{\varepsilon} F^0 dF^1 - f^0 df^1 \overset{*}{\varepsilon} - df^0 (\overset{*}{\varepsilon} F^1 - f^1 \overset{*}{\varepsilon}) - f^0 (\overset{*}{\varepsilon} dF^1 - df^1 \overset{*}{\varepsilon}) = \overset{*}{\varepsilon} F^0 - f^0 \overset{*}{\varepsilon} dF^1 - f^0 \overset{*}{\varepsilon} df^1$$

$$\overset{*}{\varepsilon} \lambda \varepsilon - \overset{*}{\varepsilon} \varphi = -f^0 f^1 + f^0 \overset{*}{\varepsilon} F^1 \varepsilon = \psi \varepsilon \overset{*}{\varepsilon} \lambda \varepsilon - \overset{*}{\varepsilon} \varphi = \bar{f}^0 \overset{*}{\varepsilon} F^1 \varepsilon = \psi \varepsilon \overset{*}{\varepsilon} \lambda \varepsilon - \overset{*}{\varepsilon} \varphi = f^0 \overset{*}{\varepsilon} F^1 \varepsilon = \psi \varepsilon \overset{*}{\varepsilon} \lambda \varepsilon - \overset{*}{\varepsilon} \varphi = -\bar{f}^0 \bar{f}^1 + \bar{f}^0 \overset{*}{\varepsilon} F^1 \varepsilon$$

$$\Lambda = (\varepsilon f^0 - F^0 \varepsilon) \underline{\overset{*}{\varepsilon} F^1 - f^1 \overset{*}{\varepsilon}} = \varepsilon \psi + \varphi \overset{*}{\varepsilon} + F^0 (F^1 \varepsilon \overset{*}{\varepsilon} - \varepsilon \overset{*}{\varepsilon} F^1)$$

$$\Lambda = \underline{\varepsilon \bar{f}^0 - F^0 \varepsilon} \underline{\overset{*}{\varepsilon} F^1 - \bar{f}^1 \overset{*}{\varepsilon}} = \varepsilon \psi + \varphi \overset{*}{\varepsilon} + F^0 \underline{F^1 \varepsilon \overset{*}{\varepsilon} - \varepsilon \overset{*}{\varepsilon} F^1}$$

$$\Lambda + \Lambda = \varepsilon \psi + \varphi \overset{*}{\varepsilon} + \varepsilon \psi + \varphi \overset{*}{\varepsilon} \varepsilon \overset{*}{\varepsilon} + \varepsilon \overset{*}{\varepsilon} = I$$

$$G = \frac{\varkappa}{2} (\Lambda - \Lambda)$$

$$\tilde{\pi} \left( d\tilde{f}_3^0 \right) \tilde{\pi} \left( d\tilde{f}_3^1 \right) =$$

$d\bar{f}_b^0 \times d\bar{f}_c^1 \mathbf{z} \frac{\bar{b}\bar{c}}{0} \Big  \frac{0}{0} + d\bar{f}^0 \times d\bar{f}^1 \mathbf{z} \frac{0}{0} \Big  \frac{0}{1}$	0	0
0	$d\bar{f}_b^0 \times d\bar{f}_c^1 \mathbf{z} \bar{b}\bar{c}$	0
0	0	$d\bar{f}_b^0 \times d\bar{f}_c^1 \mathbf{z} \frac{\bar{b}\bar{c}}{0} \Big  \frac{0}{0} + d\bar{f}^0 \times d\bar{f}^1 \mathbf{z} \frac{0}{0} \Big  \frac{0}{1}$

$$\vartheta_a \mathbf{z} a = df_b^0 \times df_c^1 \mathbf{z} bc \omega_a \mathbf{z} a = f_b^0 df_c^1 \mathbf{z} bc \Rightarrow d(\omega_a \mathbf{z} a) = df_b^0 \mathbf{z} df_c^1 \mathbf{z} bc = (\vartheta_a \mathbf{z} a)^1 \Rightarrow \vartheta_a \mathbf{z} a = d(\omega_a \mathbf{z} a) + f_a$$

$$\pi_2 d\pi_1^{-1}(0) = \pi_2 \text{dKer } \pi_1 \ni$$

$$\begin{array}{c|c|c}
f_{\mathbf{Z}} \frac{1}{0} \Big| \frac{0}{1} & 0 & 0 \\
\hline
0 & \bar{f}_{\mathbf{Z}} 1 & 0 \\
\hline
0 & 0 & F_{\mathbf{Z}} \frac{1}{0} \Big| \frac{0}{1} + \\
& & G_{\mathbf{Z}} \frac{d\bar{d} - u\bar{u}}{0} \Big| \frac{0}{e\bar{e}}
\end{array}
\oplus
\begin{array}{c|c|c}
\bar{f}_a \mathbf{Z} \frac{a}{0} \Big| \frac{0}{0} & 0 & 0 \\
+ \bar{f}_{\mathbf{Z}} \frac{0}{0} \Big| \frac{0}{1} & & \\
\hline
0 & \bar{f}_a \mathbf{Z} a & 0 \\
\hline
0 & 0 & \bar{f}_a \mathbf{Z} \frac{a}{0} \Big| \frac{0}{0} \\
& & + \bar{f}_{\mathbf{Z}} \frac{0}{0} \Big| \frac{0}{1}
\end{array}$$

$$G \in \mathfrak{h}_{\infty}^2 \mathbb{K}_2$$

$$(\pi_2 \text{dKer } \pi_1)^\perp \ni$$

$$\begin{array}{c|c|c}
\sigma_{\mathbf{Z}} \frac{1}{0} \Big| \frac{0}{1} + \\
\bar{\varepsilon} \lambda \varepsilon_{\mathbf{Z}} \frac{d\bar{d} - r/s}{0} \Big| \frac{0}{\bar{e}e - r/s} & \bar{\varepsilon} \lambda \varepsilon_{\mathbf{Z}} \frac{d\bar{u}}{0} & \varkappa \Gamma \eta_{\mathbf{Z}} \frac{d}{0} \Big| \frac{0}{\bar{e}} \\
\hline
\bar{\varepsilon} \lambda \varepsilon_{\mathbf{Z}} [d\bar{u} \ 0] & \bar{\sigma}_{\mathbf{Z}} 1 + \\
\bar{\varepsilon} \lambda \varepsilon_{\mathbf{Z}} (u\bar{u} - r/s) & \varkappa \Gamma \eta_{\mathbf{Z}} \bar{u} \Big| 0 \\
\hline
\xi \Gamma_{\mathbf{Z}} \frac{d}{0} \Big| \frac{0}{e} & \xi \Gamma_{\mathbf{Z}} \frac{u}{0} & \Sigma_{\mathbf{Z}} \frac{1}{0} \Big| \frac{0}{1} + \\
& & \Lambda_{\mathbf{Z}} \frac{d\bar{d} + u\bar{u} - r/t}{0} \Big| \frac{0}{e\bar{e} - r/t} \\
\hline
\bar{\sigma}_a \mathbf{Z} \frac{a}{0} \Big| \frac{0}{0} + (\bar{\sigma} - r/s \bar{\varepsilon} \lambda \varepsilon) \mathbf{Z} \frac{0}{0} \Big| \frac{0}{1} & 0 & 0 \\
\hline
0 & \bar{\sigma}_a \mathbf{Z} a & 0 \\
\hline
0 & 0 & \bar{\sigma}_a \mathbf{Z} \frac{a}{0} \Big| \frac{0}{0} + (\bar{\sigma} - r/s \bar{\varepsilon} \lambda \varepsilon) \mathbf{Z} \frac{0}{0} \Big| \frac{0}{1}
\end{array}$$

$$\lambda \in \mathfrak{h}_{\infty} \mathbb{K}: \quad \Lambda \in \mathfrak{h}_{\infty}^2 \mathbb{K}_2: \quad \sigma \in \mathfrak{h}_{\infty} \mathfrak{h}_{\infty}^2 \mathbb{K}: \quad \Sigma \in \mathfrak{h}_{\infty} \mathfrak{h}_{\infty}^2 \mathbb{K}_2$$

$$\vartheta_3 \in (\text{dKer } \pi_1)^\perp \vartheta'_3 \in \text{dKer } \pi_1 \Rightarrow \vartheta' = f\Theta' = F: \quad \vartheta'_a \mathbf{Z} a = f_a \mathbf{Z} a$$

$$\lambda' = 0: \quad \xi' = 0: \quad \eta' = 0: \quad \Lambda' = -\Lambda' = G \Leftrightarrow$$

$$0 = \vartheta_3 \mathbf{Z} \vartheta'_3 = s\vartheta \mathbf{Z} f + t\Theta \mathbf{Z} F + 4 \text{tr } \tilde{x} \vartheta_b \mathbf{Z} b \mathbf{Z} f_c \mathbf{Z} c + r (\bar{\varepsilon} \lambda \varepsilon \mathbf{Z} f + \Theta \mathbf{Z} G + \Lambda \mathbf{Z} F) + \text{tr} \left( \left( (d\bar{d})^2 + (u\bar{u})^2 - 2\bar{u}d\bar{d}u \right) x + \right.$$

$$\left. = s (\vartheta + \bar{\varepsilon} \lambda \varepsilon r/s) \mathbf{Z} f + t (\Theta + \Lambda r/t) \mathbf{Z} F + 4 \text{tr } \tilde{x} \vartheta_b \mathbf{Z} b \mathbf{Z} f_c \mathbf{Z} c + \underbrace{\left( (d\bar{d} - u\bar{u})^2 x + (\bar{e}e)^2 y \right)}_{\Lambda \mathbf{Z} G} \Rightarrow$$

$$\vartheta + \varepsilon^* \lambda \varepsilon r/s = (\vartheta + \varepsilon^* \lambda \varepsilon r/s)^\perp = \vartheta^\perp = \sigma^\perp: \quad \Theta + \Lambda r/t = (\Theta + \Lambda r/t)^\perp = \Theta^\perp = \Sigma^\perp: \quad \vartheta_b \mathbf{x} b = (\vartheta_b \mathbf{x} b)^\perp = \sigma_b \mathbf{x} a^\perp$$

$$\Lambda \mathbf{x} G = 0 \Rightarrow \Lambda = \Lambda \in \mathfrak{h}_{\infty}^2 \mathbb{K}_2$$

$$(\pi_2 \text{dKer } \pi_1)^\perp \cong \frac{\vartheta_3 \mid 0}{0 \mid \tilde{\vartheta}_3}^\perp = \frac{\vartheta_3^\perp \mid 0}{0 \mid \tilde{\vartheta}_3^\perp}$$

$$\vartheta_3^\perp = \begin{array}{c|c|c} \vartheta^\perp \mathbf{x} \frac{1 \mid 0}{0 \mid 1} + & & \\ \varepsilon^* \lambda \varepsilon \mathbf{x} \frac{\overset{*}{d}d - r/s \mid 0}{0 \mid \overset{*}{e}e - r/s} & \varepsilon^* \lambda \varepsilon \mathbf{x} \frac{\overset{*}{d}u}{0} & \varkappa \Gamma \eta \mathbf{x} \frac{\overset{*}{d} \mid 0}{0 \mid \overset{*}{e}} \\ \hline \varepsilon^* \lambda \varepsilon \mathbf{x} [\overset{*}{u}d \ 0] & \bar{\vartheta}^\perp \mathbf{x} 1 + \varepsilon^* \lambda \varepsilon \mathbf{x} (\overset{*}{u}u - r/s) & \varkappa \Gamma \eta \mathbf{x} \overset{*}{u} \mid 0 \\ \hline \xi \Gamma \mathbf{x} \frac{d \mid 0}{0 \mid e} & \xi \Gamma \mathbf{x} \frac{u}{0} & \Theta^\perp \mathbf{x} \frac{1 \mid 0}{0 \mid 1} + \frac{\Lambda + \Lambda}{2} \mathbf{x} \frac{\overset{*}{d}d + \overset{*}{u}u - r/t \mid 0}{0 \mid \overset{*}{e}e - r/t} \\ \hline \bar{\vartheta}_a^\perp \mathbf{x} \frac{a \mid 0}{0 \mid 0} + (\bar{\vartheta}^\perp - r/s \varepsilon^* \lambda \varepsilon) \mathbf{x} \frac{0 \mid 0}{0 \mid 1} & 0 & 0 \\ \hline 0 & \bar{\vartheta}_a^\perp \mathbf{x} a & 0 \\ \hline 0 & 0 & \bar{\vartheta}_a^\perp \mathbf{x} \frac{a \mid 0}{0 \mid 0} + (\bar{\vartheta}^\perp - r/s \varepsilon^* \lambda \varepsilon) \mathbf{x} \frac{0 \mid 0}{0 \mid 1} \end{array}$$

$$\text{dKer } \pi_1 \cong \frac{\vartheta_3 \mid 0}{0 \mid \tilde{\vartheta}_3} - \frac{\vartheta_3^\perp \mid 0}{0 \mid \tilde{\vartheta}_3^\perp} =$$

$$\begin{array}{c|c|c} (\vartheta - \vartheta^\perp + r/s \varepsilon^* \lambda \varepsilon) \mathbf{x} \frac{1 \mid 0}{0 \mid 1} & 0 & 0 \\ \hline 0 & (\bar{\vartheta} - \bar{\vartheta}^\perp + r/s \varepsilon^* \lambda \varepsilon) \mathbf{x} 1 & 0 \\ \hline 0 & 0 & \left( \Theta - \Theta^\perp + \frac{r}{t} \frac{\Lambda + \Lambda}{2} \right) \mathbf{x} \frac{1 \mid 0}{0 \mid 1} + \frac{\Lambda - \Lambda}{2} \mathbf{x} \frac{\overset{*}{d}d - \overset{*}{u}u \mid 0}{0 \mid \overset{*}{e}e} \end{array}$$



$\left(\bar{\vartheta}_a - \bar{\vartheta}_a\right)^1 \mathbf{x} \frac{a}{0} \left  \frac{0}{0} \right. + \left(\bar{\vartheta} - \bar{\vartheta}^1 + r/s \mathbf{x} \bar{\varepsilon} \lambda \varepsilon\right) \mathbf{x} \frac{0}{0} \left  \frac{0}{1} \right.$	0	0
0	$\left(\bar{\vartheta}_a - \bar{\vartheta}_a^1\right) \mathbf{x} a$	0
0	0	$\left(\bar{\vartheta}_a - \bar{\vartheta}_a^1\right) \mathbf{x} \frac{a}{0} \left  \frac{0}{0} \right. + \left(\bar{\vartheta} - \bar{\vartheta}^1 + r/s \mathbf{x} \bar{\varepsilon} \lambda \varepsilon\right) \mathbf{x} \frac{0}{0} \left  \frac{0}{1} \right.$

$$\Delta + \Delta \in \mathbb{H}_{\infty}^2 \mathbb{K}_2: \quad \Delta - \Delta \in \mathbb{H}_{\infty}^2 \mathbb{K}_2$$

$$\frac{\omega_3^0 \left| \frac{0}{\tilde{\omega}_3^0} \right.}{0} \frac{\omega_3^1 \left| \frac{0}{\tilde{\omega}_3^1} \right.}{0} =$$

$\omega^0 \mathbf{x} \omega^1 \mathbf{x} \frac{1}{0} \left  \frac{0}{1} \right. +$ $\varkappa \psi^0 \varphi^1 \mathbf{x} \frac{d^* d - r/s}{0} \left  \frac{0}{\bar{\varepsilon} e - r/s} \right.$	$\varkappa \psi^0 \varphi^1 \mathbf{x} \frac{d^* u}{0}$	$\varkappa \Gamma \left( \psi^0 \Omega^1 - \omega^0 \psi^1 \right) \mathbf{x} \frac{d^*}{0} \left  \frac{0}{\bar{\varepsilon}} \right.$
$\varkappa \psi^0 \varphi^1 \mathbf{x} [i^* d \quad 0]$	$\omega^0 \mathbf{x} \omega^1 \mathbf{x} 1 +$ $\varkappa \psi^0 \varphi^1 \mathbf{x} (i^* u - r/s)$	$\varkappa \Gamma \left( \psi^0 \Omega^1 - \bar{\omega}^0 \psi^1 \right) \mathbf{x} i^* \left  0 \right.$
$\left( \Omega^0 \varphi^1 - \varphi^0 \omega^1 \right) \Gamma \mathbf{x} \frac{d}{0} \left  \frac{0}{e} \right.$	$\left( \Omega^0 \varphi^1 - \varphi^0 \bar{\omega}^1 \right) \Gamma \mathbf{x} \frac{u}{0}$	$\Omega^0 \mathbf{x} \Omega^1 \mathbf{x} \frac{1}{0} \left  \frac{0}{1} \right. +$ $\varkappa \frac{\varphi^0 \psi^1 + \varphi^0 \psi^1}{2} \mathbf{x} \frac{d^* d + u i^* - r/t}{0} \left  \frac{0}{e \bar{\varepsilon} - r/t} \right.$
$\bar{\omega}_b^0 \mathbf{x} \bar{\omega}_c^1 \mathbf{x} \frac{\bar{b} \bar{c}}{0} \left  \frac{0}{0} \right. +$ $\left( \bar{\omega}^0 \mathbf{x} \bar{\omega}^1 - \varkappa r/s \psi^0 \varphi^1 \right) \mathbf{x} \frac{0}{0} \left  \frac{0}{1} \right.$	0	0
0	$\bar{\omega}_b^0 \mathbf{x} \bar{\omega}_c^1 \mathbf{x} \bar{b} \bar{c}$	0
0	0	$\bar{\omega}_b^0 \mathbf{x} \bar{\omega}_c^1 \mathbf{x} \frac{\bar{b} \bar{c}}{0} \left  \frac{0}{0} \right. +$ $\left( \bar{\omega}^0 \mathbf{x} \bar{\omega}^1 - \varkappa r/s \psi^0 \varphi^1 \right) \mathbf{x} \frac{0}{0} \left  \frac{0}{1} \right.$
$\bar{\vartheta}_a \mathbf{x} \frac{a}{0} \left  \frac{0}{0} \right. + \bar{\vartheta} \mathbf{x} \frac{0}{0} \left  \frac{0}{1} \right.$	0	0
$\vartheta_3 =$	$\bar{\vartheta}_a \mathbf{x} a$	0
0	0	$\bar{\vartheta}_a \mathbf{x} \frac{a}{0} \left  \frac{0}{0} \right. + \bar{\vartheta} \mathbf{x} \frac{0}{0} \left  \frac{0}{1} \right.$