

$$\omega_2 = \frac{\omega \mathbf{z} 1_R}{\varphi \Gamma \mathbf{z} e} \Big| \frac{\varkappa \Gamma \psi \mathbf{z} \check{e}}{\Omega \mathbf{z} 1_L}$$

$$\omega \in \mathfrak{h}_{\infty} \underbrace{\mathfrak{h}_{\infty} \mathbb{K}}: \quad \Omega \in \mathfrak{h}_{\infty} \underbrace{\mathfrak{h}_{\infty} {}^2\mathbb{K}_2}: \quad \varphi \in \mathfrak{h}_{\infty} {}^2\mathbb{K}: \quad \psi \in \mathfrak{h}_{\infty} \mathbb{K}_2$$

$$\frac{f_R^0 \mathbf{z} 1_R}{0} \Big| \frac{0}{f_L^0 \mathbf{z} 1_L} \quad \frac{df_R^1 \mathbf{z} 1_R}{f_{\underline{LR}}^1 \Gamma \mathbf{z} e} \Big| \frac{\varkappa \Gamma f_{\underline{LR}}^1 \mathbf{z} \check{e}}{df_L^1 \mathbf{z} 1_L} = \frac{f_R^0 df_R^1 \mathbf{z} 1_R}{f_L^0 f_{\underline{RL}}^1 \Gamma \mathbf{z} e} \Big| \frac{\varkappa \Gamma f_R^0 f_{\underline{LR}}^1 \mathbf{z} \check{e}}{f_L^0 df_L^1 \mathbf{z} 1_L}$$

$$\begin{aligned} f_2^0 \underbrace{D_2 \rtimes f_2^1} &= \frac{f^0 \mathbf{z} 1_R}{0} \Big| \frac{0}{F^0 \mathbf{z} 1_L} \quad \frac{df^1 \mathbf{z} 1_R}{\varepsilon \underbrace{f^1 - F^1}_{\varepsilon} \Gamma \mathbf{z} e} \Big| \frac{\varkappa \Gamma \underbrace{\check{\varepsilon} F^1 - f^1 \check{\varepsilon}}_{\check{\varepsilon}} \mathbf{z} \check{e}}{dF^1 \mathbf{z} 1_L} \\ &= \frac{f^0 df^1 \mathbf{z} 1_R}{F^0 \varepsilon \underbrace{f^1 - F^1}_{\varepsilon} \Gamma \mathbf{z} e} \Big| \frac{\varkappa \Gamma f^0 \underbrace{\check{\varepsilon} F^1 - f^1 \check{\varepsilon}}_{\check{\varepsilon}} \mathbf{z} \check{e}}{F^0 dF^1 \mathbf{z} 1_L} \end{aligned}$$

$$\omega = f^0 d f^1: \quad \Omega = F^0 d F^1: \quad \varphi = F^0 \varepsilon \underbrace{f^1 - F^1}_{\varepsilon}: \quad \psi = f^0 \underbrace{\check{\varepsilon} F^1 - f^1 \check{\varepsilon}}_{\check{\varepsilon}}$$

$$\omega_2 = -\check{\omega}_2 = \frac{\omega \mathbf{z} 1_R}{\varphi \Gamma \mathbf{z} e} \Big| \frac{\varkappa \Gamma \check{\varphi} \mathbf{z} \check{e}}{\Omega \mathbf{z} 1_L}$$

$$\omega \in \mathfrak{h}_{\infty} \underbrace{\mathfrak{h}_{\infty} \mathbb{K}}$$

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

$$\frac{\omega \mathbf{z} 1_R}{\varphi \Gamma \mathbf{z} e} \Big| \frac{\varkappa \Gamma \psi \mathbf{z} \check{e}}{\Omega \mathbf{z} 1_L} = \frac{\check{\omega} \mathbf{z} 1_R}{\check{\psi} \check{\Gamma} \varkappa \mathbf{z} e} \Big| \frac{\check{\Gamma} \check{\varphi} \mathbf{z} \check{e}}{\check{\Omega} \mathbf{z} 1_L} = \frac{\bar{\omega} \mathbf{z} 1_R}{-\check{\psi} \Gamma \mathbf{z} e} \Big| \frac{-\varkappa \Gamma \check{\varphi} \mathbf{z} \check{e}}{\check{\Omega} \mathbf{z} 1_L}$$

$$\bar{\omega} = -\omega: \quad \check{\Omega} = -\Omega: \quad \check{\varphi} = \psi$$

$$\omega_2 = -\check{\omega}_2 s \underbrace{\varrho \rtimes \omega_2}_{\varrho} = 0 \bigwedge_{\varrho} \in$$

$$\omega_2 = \frac{\omega \mathbf{z} 1_R}{\varphi \Gamma \mathbf{z} e} \Big| \frac{\varkappa \Gamma \check{\varphi} \mathbf{z} \check{e}}{\underbrace{\Omega_0 + \frac{1}{2} \omega \mathbf{z} 1_L}}$$

$$\omega \in \mathfrak{h}_{\infty} \underbrace{\mathfrak{h}_{\infty} \mathbb{K}}$$

$$\Omega_0 \in \mathfrak{h}_{\infty} \underbrace{\mathfrak{h}_{\infty} {}^2\mathbb{K}_2}$$

$$\begin{aligned}
& \omega = \underline{\Omega} \\
0 = s \underbrace{\frac{\varrho \mathbf{X} 1_R}{0} \Big| \frac{0}{\varrho \mathbf{X} 1_L} \frac{\omega \mathbf{X} 1_R}{\varphi \Gamma \mathbf{X} e} \Big| \frac{\varkappa \Gamma \dot{\varphi}^* \mathbf{X} \dot{e}}{\Omega \mathbf{X} 1_L} \frac{I \mathbf{X} y_R}{0} \Big| \frac{0}{I \mathbf{X} y_L}}_{\hspace{1.5cm}} &= s \underbrace{\frac{\varrho \times \omega \mathbf{X} y_R}{\zeta \varphi \Gamma \mathbf{X} e y_R} \Big| \frac{\varkappa \zeta \Gamma \dot{\varphi}^* \mathbf{X} \dot{e} y_L}{\varrho \times \Omega \mathbf{X} 1_L}}_{\hspace{1.5cm}} \\
&= \underbrace{y_R}_{\hspace{0.5cm}} \varrho \mathbf{X} \omega - \underbrace{y_L}_{\hspace{0.5cm}} \varrho \mathbf{X} \Omega = s \varrho \mathbf{X} \underbrace{\omega - \Omega} \Rightarrow \omega = \underline{\Omega} \Rightarrow \Omega = \Omega_0 + \frac{1}{2} \omega \Omega_0 \in
\end{aligned}$$