

$$\overline{\partial_{w\dot{u}x} - w \star u \left(\frac{p}{2} - 1 + E \right)} \varphi \in \mathcal{H}^\perp$$

$$\mathcal{E}_a^m \star \overline{\partial_{w\dot{u}x} - w \star u \left(\frac{p}{2} - 1 + E \right)} \mathcal{E}_b^{m+} = \mathcal{E}_a^m \star \overline{w\dot{u}x \mathcal{E}_b^{m+} - \left(\frac{p}{2} + m \right) w \star u \mathcal{E}_b^{m+}} = 0$$

$$\mathcal{E}_a^m \star \overline{w \star u x \mathcal{E}_b^{m+}} = (m+1) \frac{j_{m+1} \rho_{2m+1}}{\rho_{2m+2}} \overline{w \star b}^a \mathcal{E}_b^m$$

$$t w_1 \star b = t \lambda u \star b = \lambda x \star b = \overline{w \star u} \overline{x \star b}$$

$$w_1 = \lambda u$$

$$\lambda = w \star u$$

$$\text{LHS} = \mathcal{E}_a^m \star \overline{w \star u} \overline{x \star b}^x \mathcal{E}_b^m = (m+1) \mathcal{E}_a^m \star \overline{w \star u}^x \mathcal{E}_b^{m+} = \text{RHS}$$

$$\mathcal{E}_a^{n+} \star \overline{u \star w x \mathcal{E}_b^n} = n \frac{j_{n+1} \rho_{2n+1}}{\rho_{2n+2}} \overline{a \star w}^a \mathcal{E}_b^n$$

$$\dot{w}_1 \star b = \underline{u \star w} \star b = \overline{u \star w} \overline{u \star b}$$

$$\text{LHS} = \mathcal{E}_a^{n+} \star \overline{u \star w} \overline{x \star b}^x \mathcal{E}_b^{n-} = n \overline{w \star u}^x \mathcal{E}_a^{n+} \star \mathcal{E}_b^n = \text{RHS}$$