

$$\left\{ \mathcal{R}_{ka}^i h_j^a - \mathcal{R}_{ja}^i h_k^a + \right. \\
\left. h_j^a h_k^{a1} \partial_a b_{a1}^i - h_j^a h_k^{a1} \partial_{a1} b_a^i \right. \\
\left. - \frac{1}{2} \pi_{ja1}^b b_i^a \wedge \gamma_{ab} n^{a1} - \frac{1}{2} \pi_{ia1}^b b_j^a \wedge \gamma_{ab} n^{a1} \right\}$$