

$$\begin{aligned}
& \frac{2 \kappa^2 \pi^{bc} f s^a \nabla_a \pi_{bc}}{\sqrt{h}} - \frac{\kappa^2 \pi^b_b f s^a \nabla_a \pi^c_c}{\sqrt{h}} + \frac{\kappa^2 \pi_{bc} \pi^{bc} f \nabla_a s^a}{\sqrt{h}} - \frac{\kappa^2 \pi^b_b \pi^c_c f \nabla_a s^a}{2 \sqrt{h}} - \\
& \frac{\sqrt{h} R[\nabla] f \nabla_a s^a}{\kappa^2} + \frac{2 \sqrt{h} \nabla_a s^a \nabla_b \nabla^b f}{\kappa^2} + \frac{2 \sqrt{h} R[\nabla]_{ab} f \nabla^b s^a}{\kappa^2} - \frac{\sqrt{h} \nabla_a \nabla_b f \nabla^b s^a}{\kappa^2} - \frac{\sqrt{h} \nabla_b \nabla_a f \nabla^b s^a}{\kappa^2}
\end{aligned}$$