

$$\begin{aligned}
& 2(s^a \left(-(\nabla_a f^b + \nabla^b f_a) \nabla_c \pi_b^c \right) + \nabla^b f^a (\pi_{ab} \nabla_c s^c - \pi_{ac} \nabla^c s_b) + \nabla^b f^a (\pi_{ab} \nabla_c s^c - \pi_{ac} \nabla^c s_b) \\
& - f^a \left((\nabla_a s^b + \nabla^b s_a) \nabla_c \pi_b^c - \nabla_a \pi_{bc} \nabla^b f^a \nabla^c s^b \right) + \pi_{bc} \left(\nabla_a s^c \nabla^b f^a \nabla^c s^b \right)
\end{aligned}$$