



$$\begin{cases} s_p(q) + {}^e U_q^p s_q(r) = s_p(r) \\ \eta_p(q) + {}^m U_q^p \eta_q(r) = \eta_p(r) \\ T_p \circ s_p(q) + {}^{\text{new}} U_q^p T_q \circ s_q(r) = T_p s_p(r) \end{cases}$$