

The diagram shows a loop with two vertices. The left vertex is a circle with an 'X' inside. The right vertex is a circle with diagonal hatching. Two paths connect the vertices: the top path is labeled  $p_1$  with an arrow pointing left, and the bottom path is labeled  $p_2$  with an arrow pointing right.

$$\partial_k R_{k,ij}(p_1, p_2) \left[ \Gamma_k^{(2)} + R_k \right]_{ji}^{-1}(p_2, p_1)$$