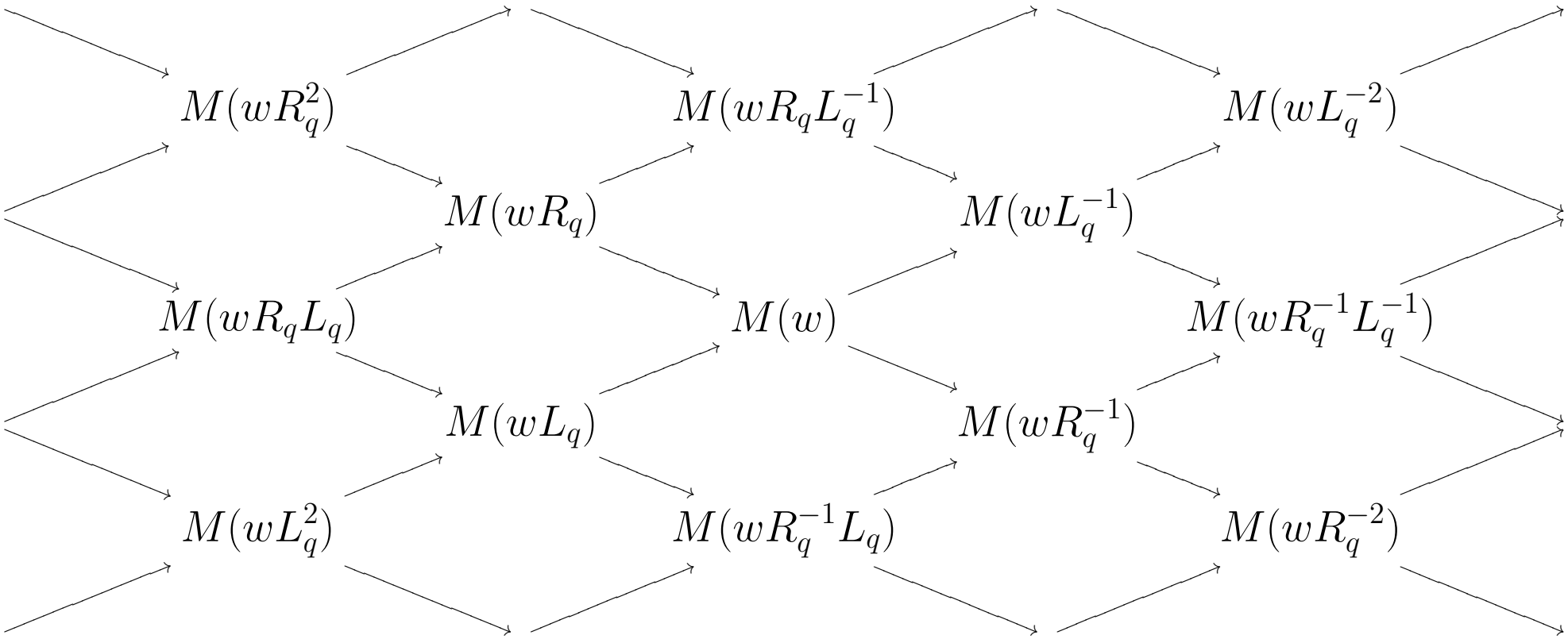

$$M(A) \rightleftharpoons M(AR_q) \rightleftharpoons M(AR_q^2) \rightleftharpoons \cdots$$

$$M(B) \rightleftharpoons M(BR_q) \rightleftharpoons M(BR_q^2) \rightleftharpoons \cdots$$