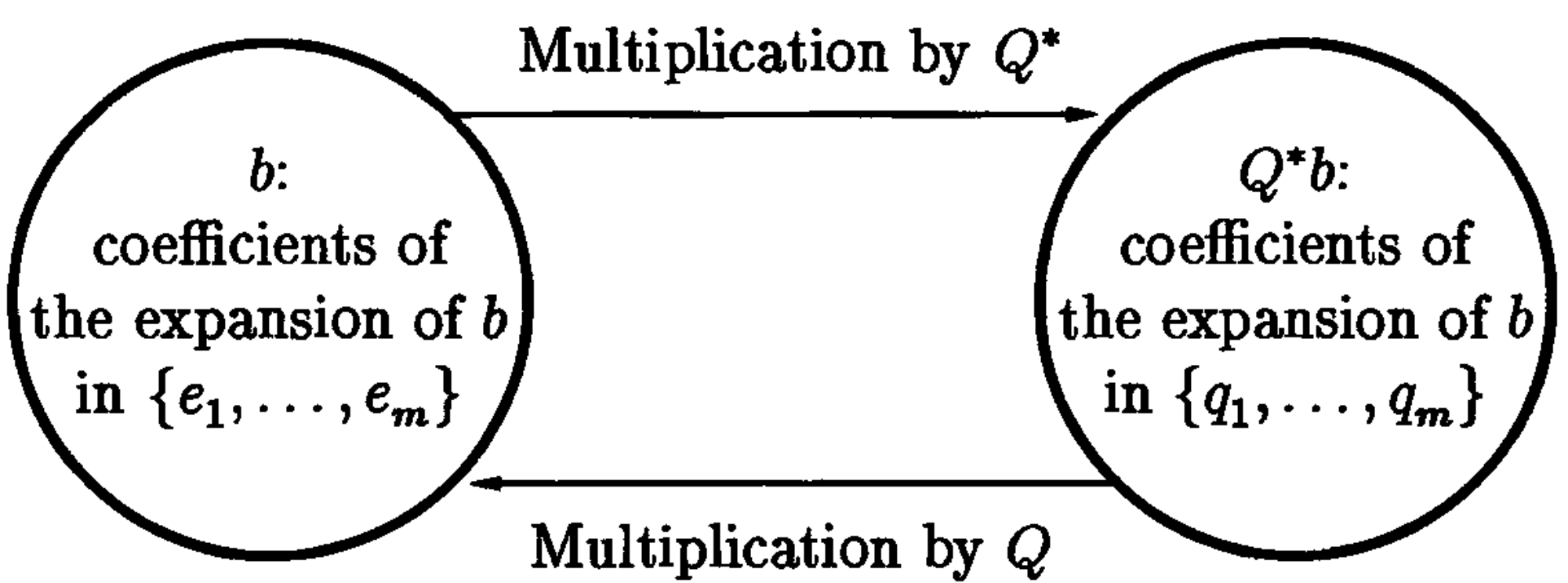
Multiplication by Q^*
b:
coefficients of
the expansion of b
in $\{e_1, \ldots, e_m\}$
Q^*b:
coefficients of
the expansion of b
in $\{q_1, \ldots, q_m\}$
Multiplication by Q