$$\underbrace{\begin{array}{c}Q_k\\\\Q_k^{(k-1)}\end{array}}_{Z_{k-1}}\underbrace{\begin{array}{c}Q_k\\\\Q_k^{(k)}\end{array}}_{\Omega_k}\underbrace{\begin{array}{c}\\\\Z_{k+1}\end{array}}_{\Omega_k}\cdots \longrightarrow Z$$