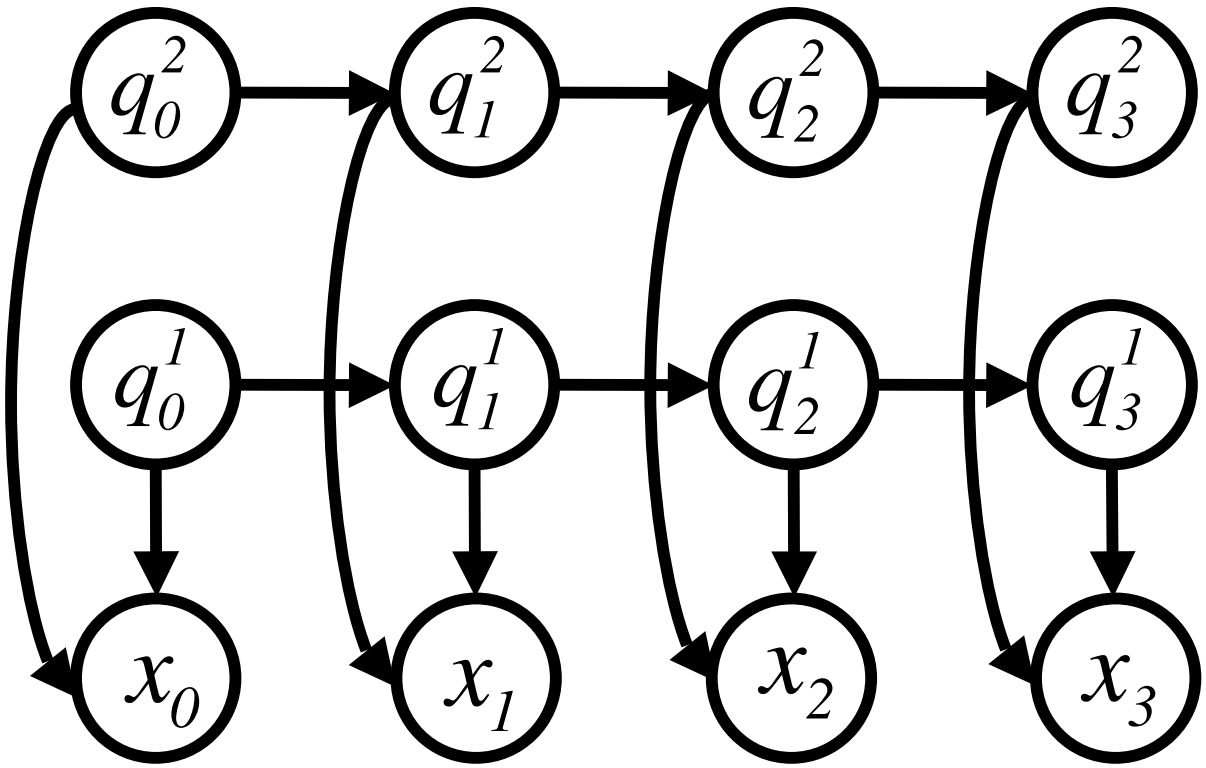
q_0^2
q_1^2
q_2^2
q_3^2
q_0^1
q_1^1
q_2^1
q_3^1
x_0
x_1
x_2
x_3