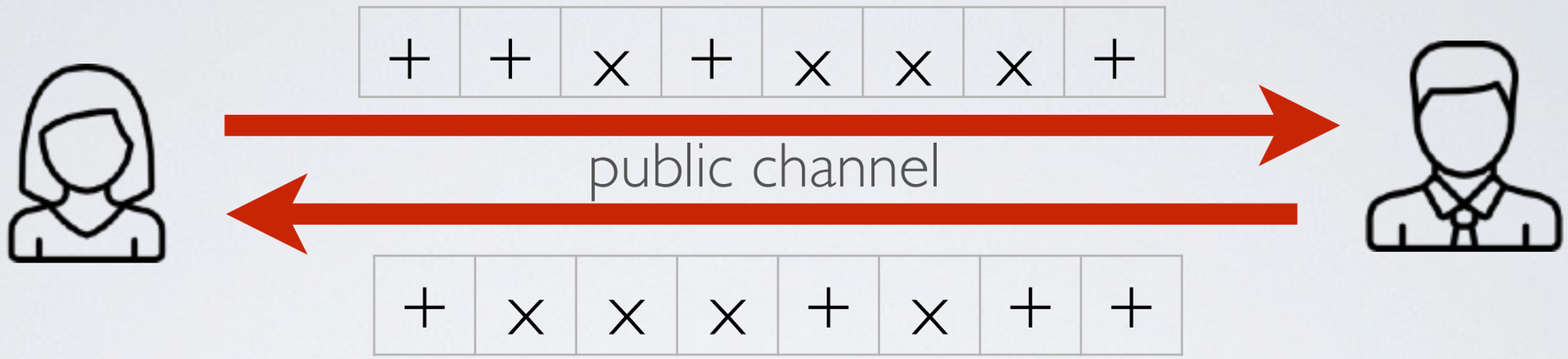
Quantum Key Distribution - step 2



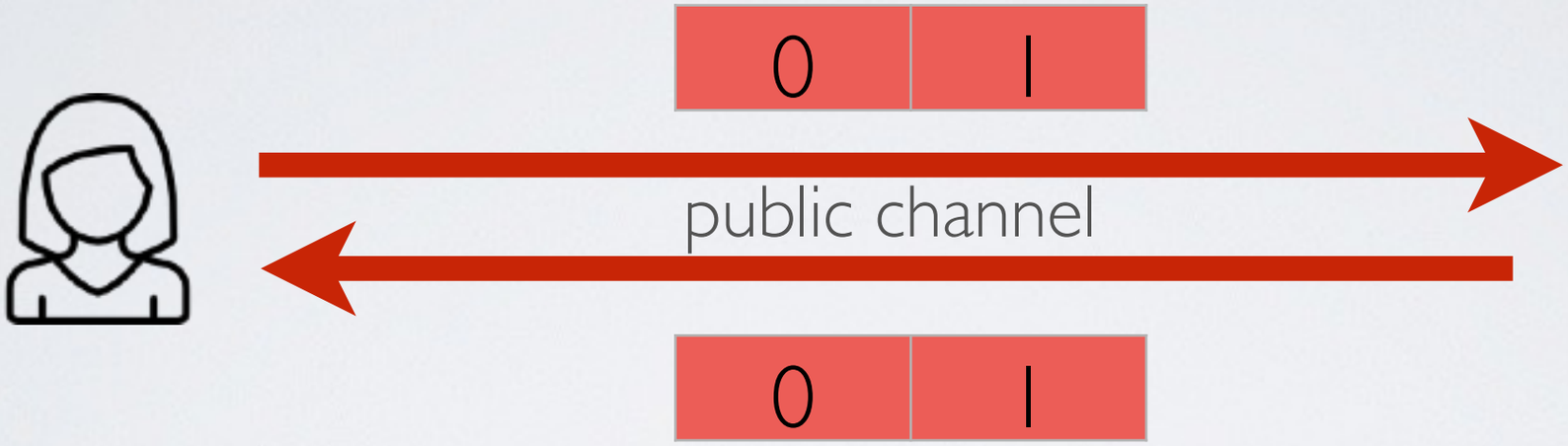
0		I			0		I

0		I			0		I

5. Alice and Bob exchange their sequence of basis on the public channel

6. The basis that are commonly correct are used to generate the key

Quantum Key Distribution - step 3



Has Eve eavesdrop on the quantum Channel ?

➡ Eavesdropping the quantum channel modifies the polarization of the photons

7. Alice and Bob spare and exchange a sub sequence of their shared secret key
8. If this subsequence match, it means that nobody has eavesdrop the quantum channel. If not, the key is invalid.