

## Quantum Key Distribution - step 2

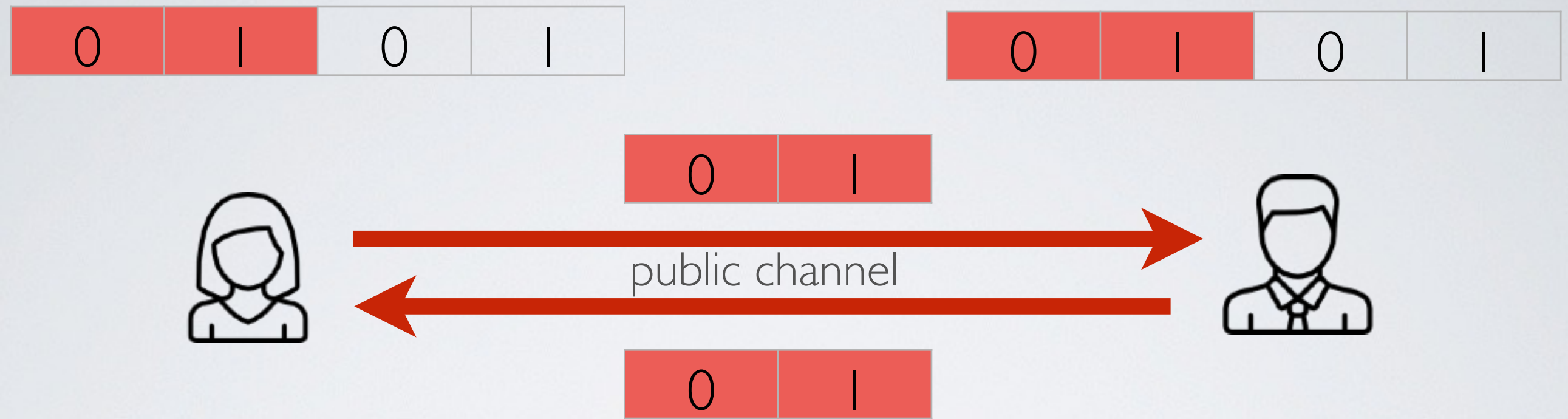


0		1			0		1
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0		1			0		1
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5. Alice and Bob exchange their sequence of basis on the public channel
6. The basis that are commonly correct are used to generate the key

# 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.