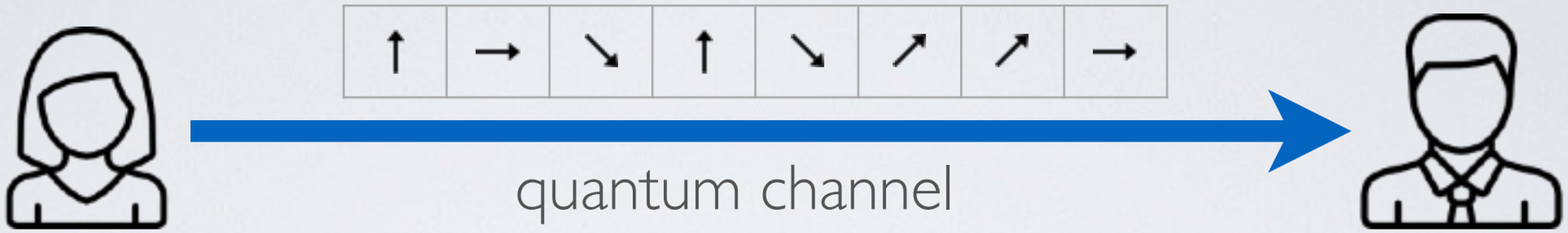
Quantum Key Distribution - step 1

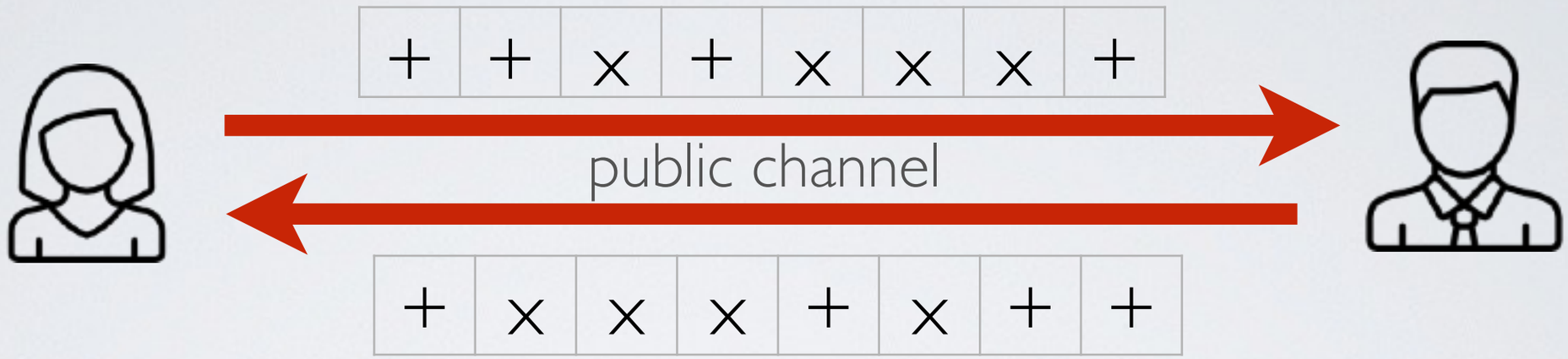


0	1	1	0	1	0	0	1
+	+	×	+	×	×	×	+
↑	→	↘	↑	↘	↗	↗	→

+	×	×	×	+	×	+	+
↑	↗	↘	↗	→	↗	→	→

1. Alice creates:
   I. a sequence of random sequence of bits
   II. a sequence of random sequence of basis
   III. a sequence of random sequence of polarized photons corresponding to the basis
2. Alice sends the photon sequence to Bob over the quantum channel
3. Bob selects a random sequence of basis
4. Bob measures Alice's sequence of photons using his basis

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