

Protocol BB84. The goal of this protocol is to establish a common secret of n bits between Alice and Bob.

- 1)** Alice chooses a data string s of $(4 + \delta)n$ bits that are independently selected uniformly at random.
- 2)** Alice chooses a string b of $(4 + \delta)n$ symbols over the alphabet $\{\boxplus, \boxtimes\}$ that are independently selected uniformly at random.