

Send the states  $|0\rangle$ ,  $(|0\rangle + |1\rangle)/\sqrt{2}$ , and  $(|0\rangle - i|1\rangle)/\sqrt{2}$  to another party on AER simulator (5 points)

- send by SWAP with  $|0\rangle$
- teleport
- cross-send all combinations of states by the full SWAP
- confirm the teleportation by appropriate measurement.

Presentation: analyze the distribution on real device at larger distance.