



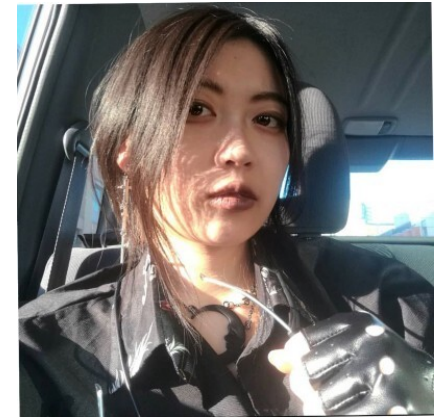
Quantum Internet
Hackathon 2022

Team QuKiDo

QuKiDo == Quantum Aikido

BB-8 is going to communicate with Luke Skywalker using BB84.

A skittish but loyal astromech, BB-8 accompanied Poe Dameron on many missions for the Resistance, helping keep his X-wing in working order. When Poe's mission to Jakku ended with his capture by the First Order, BB-8 fled into the desert with a vital clue to the location of Jedi Master Luke Skywalker.



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Quantum Internet

Hackathon 2022

QKD challenge

Great fun!

Great opportunity

To learn!

Work done

- * Implementation of E91 protocol
- * Run standard experiment
- * Run experiment on lossy channel (fidelity=0.9)

What needs to be done next

Still need to integrate codes with autocheck and test_case

Results analysis

Eavesdropping

Possibly implement BBM92 as well

Compare BB84 (available in the documentation), E91 and BBM92

Remark

To get useful results we set the timeout to 180