



Quantum Internet  
Hackathon 2022

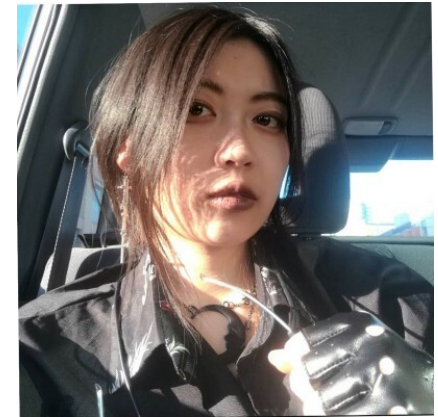
# Team QuKiDo

QuKiDo == Quantum Aikido

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

15:24

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.



## Components:

Giuliana Siddi Moreau

David Liu

Xiaoran Li

julie@crs4.it

liud@pfw.edu

x832li@uwaterloo.ca



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## 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