Quantum Computing and Cryptography - 24: The Goldenberg-Vaidman Protocol

Length	Nanomodule
Collection	NSA NCCP
Updated	March 14, 2019
Contributors	Abhishek Parakh
Academic Levels	Undergraduate, Graduate
Topics	Quantum Computing
Link	https://clark.center/details/aparakh/a1328a6b-28e7-48c6-9120-3972550e88f8

Description

In this lesson, students will learn quantum key distribution based on orthogonal quantum states as compared to non-orthogonal quantum states. Students will use Mach-Zehnder interferometer for this purpose.

Email Dr. Abhishek Parakh at aparakh@unomaha.edu for solutions to the problems.

Note: To get started with Jupyter notebooks please follow the userguide available at: https://sites.google.com/unomaha.edu/userguideqcl/

Outcomes

- Use Mach-Zehnder interferometer for QKD.
- Outline quantum key distribution based on orthogonal quantum states.

Links

External links that are associated with this learning object

- User guide