Tutorial 7

4. 6. 2021

- Task 1. Prove two normal operators commute, if and only if they have a common basis of eigenvectors.
- **Task 2.** Find a decomposition of CH (controlled H) gate, into one qubit gates and CNOTs. You can use the AXBXC decomposition.
- Task 3. BB84 protocol uses four states of one qubit. Can you use more to make things harder for the attacker?