

## Modeling & Control of

## **Open Quantum Systems**

- **May 30**, Introduction to quantum mechanics based on the twolevel system.
- **May 31**, Dynamical models: Markov chains, Kraus maps, quantum stochastic master equations and Lindblad differential equations.
- June 1, Stabilization scheme relying on measurement-based feedback and Lyapunov techniques.
- June 2, Stabilization scheme relying on dissipation engineering and coherent feedback.



Centre Automatique et Systèmes Mines-ParisTech, PSL Research University

## [10 a.m., May 30, 31, June 1, 2]

Room 223, Institute of Cyber-Systems & Control





Institute of Cyber-Systems & Control Center for Quantum Information