

C²QA QIS 302

A Practical Guide to Superconducting Qubit Experiments

June 19 - July 7, 2023,

Mondays, Wednesdays, and Fridays, 1 p.m. to 3 p.m. EDT*

6/19	Introduction to superconducting quantum circuits	Steve Girvin
6/21	From circuit elements to Hamiltonian	Jens Koch
6/23	Finite element modeling and device design	Wei Dai
6/26	Basic characterization of qubits and cavities	Lev Krayzman
6/28	Analyzing decoherence channels	Chen Wang
6/30	Qubit fabrication	Suhas Ganjam
7/5	Planar and 3D packaging	Miguel Moreira & Suhas Ganjam
7/7	Engineering cryogenic environments	Michael Hatridge

* Note that the exact hours are subject to change.