

Lectures

Sijie Cheng (L)
Jennifer Contreras (L)
Catherine Hathaway (L)
Andrew Jarymowycz (L)
Justin Murante (L)
Joe Ronan (L)
Eric Sung (L)

During Regularly Scheduled Slots Nov 5 to Dec 10

Error Correction/Distillation based on Error Correction
Bosonic Error Correction Codes
The Rebellion Against Copenhagen
Trapped ion Quantum Computing.
RSA algorithm or other encryption schemes.
Quantum Gates
Lindblad Master Equation and applications

Papers

Nanditha Dissanayake (P)
Victoria Perrone (P)

Qipeng Qian (P)
Swayangprabha Shaw (P)
Luis Reyna (P)
Jaxon Richards (P)
Eric Xue (P)

Due December 10 (4 weeks from today)

Quantum Computing with Electrons on Liquid Helium
Quantum-enhanced auxiliary field quantum Monte Carlo (QC-AFQMC) algorithm
Quantum Information Theory and Quantum Sensing
Surface Code Quantum Error Correction
Entanglement Quantification
Quantum Lidar
Quantum tomography

Available Dates

(7 Lectures of 35 minutes each)

Dec. 10	Sijie Cheng
Dec. 10	Eric Sung
Dec. 5	
Dec. 5	Andrew Jarymowycz
Dec. 3	
Dec. 3	Jennifer Contreras
Nov. 26	
Nov. 26	
Nov. 21	
Nov. 21	
Nov. 19	Cat Hathaway
Nov. 19	Justin Murante

Remaining Regular Lectures as of Nov. 5

Nov. 14	Lecture 22, Quantum Circuits, End of Regular Lectures !
Nov. 12	Lecture 21, Quantum Circuits, End of Regular Lectures ?
Nov. 7	Lecture 20, Classical Computation, Complexity
Nov. 5	Lecture 19, Uses of Entanglement