

2017 NSF/DOE Quantum Science Summer School

Johns Hopkins University, June 5-16, 2017

All events are in the Bloomberg Building

Lectures are held in Schafler Auditorium, unless otherwise noted

Interactive sessions are held in Classroom 464 and 478, as noted

Poster Sessions are held in 2nd Floor Lobby, as noted

Sunday, June 4

16:00–18:00 Registration and Mixer
Bloomberg Lobby (Entrance Level)

Monday, June 5

8:40-9:00 N. Drichko and J. Checkelsky
Welcome and School Overview

9:00-10:30 S. Girvin
Superconducting Qubits: Theory I

10:30-11:00 Coffee Break

11:00-12:30 V. Manucharyan
Superconducting Qubits: Quantum Information and Simulation I

12:30-13:45 Lunch

14:00-15:30 J. Shabani
Topological Quantum Computing: Experiment I

15:30-16:30 Participant Introductions / Baltimore FAQ

Tuesday, June 6

9:00-10:30 S. Girvin
Superconducting Qubits: Theory II

10:30-11:00 Coffee Break

11:00-12:30 V. Manucharyan
Superconducting Qubits: Quantum Information and Simulation II

12:30-13:45 Lunch

14:00-15:30 J. Shabani
Topological Quantum Computing: Experiment II

Wednesday, June 7

9:00-10:30 S. Girvin
Superconducting Qubits: Theory III

10:30-11:00 Coffee Break

11:00-12:30 D. McClure and A. Corcoles (IBM Team)
Fixed Frequency Qubits and IBM Quantum Experience I

12:30-13:45 Lunch

14:00-15:00 Panel Session I (**Location: Classroom 464**)

15:00-16:00 D. McClure and A. Corcoles (IBM Team) (**Location: Classroom 464**)
IBM QX Preparation

Thursday, June 9

9:00-10:30 S. Pakin

Quantum Annealing
 10:30-11:00 Coffee Break
 11:00-12:30 J. Sage
Ion Traps and 3D Integration
 12:30-13:45 Lunch
 14:30-16:30 D. McClure and A. Corcoles (IBM Team) (**Location: Classroom 464**)
Fixed Frequency Qubits and IBM Quantum Experience II
 16:30-17:30 Poster Talks I
 19:30-21:30 Poster Session I (**Location: 2nd Floor Lobby**)

Friday, June 9

9:00-10:30 W. Oliver
Superconducting Qubits and 3D Integration
 10:30-11:00 Coffee Break
 11:00-12:30 A. Aspuru-Guzik
Quantum Simulation I
 12:30-13:45 Lunch
 14:00-15:30 A. Aspuru-Guzik
Quantum Simulation II
 18:00-20:30 School BBQ

Monday, June 12

9:00-10:30 S. Lyon
Spin Qubits I
 10:30-11:00 Coffee Break
 11:00-12:30 D. Weiss
Optical Lattice Quantum Computing
 12:30-13:45 Lunch
 14:00-15:30 T. McQueen
Quantum Materials
 15:30-16:30 Facility Tour

Tuesday, June 13

9:00-10:30 S. Lyon
Spin Qubits II
 10:30-11:00 Coffee Break
 11:00-12:30 J. Alicea
Topological Quantum Computing: Theory I
 12:30-13:45 Lunch
 16:00-17:30 M. Mosca
Impacts of Quantum Computing

Wednesday, June 14

9:00-10:30 J. Alicea
Topological Quantum Computing: Theory II
 10:30-11:00 Coffee Break
 11:00-12:30 D. Freedman
Coordination Complex for Quantum Computing
 12:30-13:45 Lunch

14:00-15:30 C. Monroe
Trapped Ion Quantum Information I

Thursday, June 15

9:00-10:30 Google Team **(Location: Classroom 478)**
Machine Learning I

10:30-11:00 Coffee Break

11:00-12:30 Google Team **(Location: Classroom 478)**
Machine Learning II

12:30-13:45 Lunch

14:00-15:00 Panel Session II **(Location: Classroom 478)**

15:00-16:00 Poster Talks II **(Location: Classroom 478)**

19:30-21:30 Poster Session II **(Location: 2nd Floor Lobby)**

Friday, June 16

9:00-10:30 C. Monroe
Trapped Ion Quantum Information II

10:30-11:00 Coffee Break

11:00-12:00 School Summary

12:00-13:45 Lunch