

## Week 1 Schedule

**JUNE 20**

Monday

**9:00 AM EDT**

Early Access Summer School Welcome & Kickoff

**11:00 AM EDT**

History of Quantum Computing and Motivation for Quantum Simulation - Part 1

*Speaker: Olivia Lanes*

**1:00 PM EDT**

History of Quantum Computing and Motivation for Quantum Simulation - Part 2

*Speaker: Olivia Lanes*

**3:00 PM EDT**

Live Q&A Session with Olivia Lanes

**JUNE 21**

Tuesday

**9:00 AM EDT**

Introduction to Linear Algebra, Prerequisite Mathematics, and Circuit Composition - Part 1

*Speaker: Maria Violaris*

**11:00 AM EDT**

Introduction to Linear Algebra, Prerequisite Mathematics, and Circuit Composition – Part 2

*Speaker: Maria Violaris*

**1:00 PM EDT**

Live Q&A Session with Maria Violaris

**JUNE 22**

Wednesday

**9:00 AM EDT**

Hamiltonian Time Evolution - Part 1

*Speaker: Maria Violaris*

**11:00 AM EDT**

Hamiltonian Time Evolution - Part 2

*Speaker: Maria Violaris*

**1:00 PM EDT**

Live Q&A Session with Maria Violaris

**2:00 PM EDT**

Lab 1: Introduction to Circuit Composition and Cost  
Marcel Pfaffhauser

**JUNE 23**

Thursday

**9:00 AM EDT**

Simulation Problems - Part 1

*Speaker: Jeffrey Cohn*

**11:00 AM EDT**

Simulation Problems - Part 2

*Speaker: Jeffrey Cohn*

**1:00 PM EDT**

Live Q&A Session with Jeffrey Cohn

**3:00 PM EDT**

Lab 2: Advanced Circuits  
Mirko Amico

**JUNE 24**

Friday

**9:00 AM EDT**

Noisy Real Hardware - Noise in Quantum Computers - Part 1

*Speaker: Zlatko Minev*

**11:00 AM EDT**

Noisy Real Hardware - Noise in Quantum Computers - Part 2

*Speaker: Zlatko Minev*

**1:30 PM EDT**

Live Q&A Session with Zlatko Minev

## Week 2 Schedule

**JUNE 27**  
Monday

**9:00 AM EDT**

Broad Overview of Quantum Chemistry Simulation and Why it is a Challenge - Part 1  
*Speaker: Panos Barkoutsos*

**11:00 AM EDT**

Broad Overview of Quantum Chemistry Simulation and Why it is a Challenge - Part 2  
*Speaker: Panos Barkoutsos*

**1:00 PM EDT**

Live Q&A Session with Panos Barkoutsos

**2:30 PM EDT**

Lab 3: Quantum Noise  
Mirko Amico

**JUNE 28**  
Tuesday

**9:00 AM EDT**

Methods for Quantum Simulation - Part 1  
*Speaker: Yukio Kawashima*

**11:00 AM EDT**

Methods for Quantum Simulation - Part 2  
*Speaker: Yukio Kawashima*

**1:00 PM EDT**

Live Q&A Session with Yukio Kawashima

**JUNE 29**  
Wednesday

**9:00 AM EDT**

Quantum Static Simulation  
*Speaker: Ieva Liepuoniute*

**11:00 AM EDT**

Live Q&A Session with Ieva Liepuoniute

**JUNE 30**  
Thursday

**9:00 AM EDT**

Quantum Dynamics - Part 1  
*Speaker: Alexander Miessen*

**11:00 AM EDT**

Quantum Dynamics - Part 2  
*Speaker: Alexander Miessen*

**1:00 PM EDT**

Live Q&A Session with Alexander Miessen

**JULY 1**  
Friday

**11:00 AM EDT**

Commencement