

# QEC Summer School Schedule

As of July 24 subject to change.

## Week 4

LDPC Codes  
Experimental QEC - Superconducting Qubits  
Programming QEC Simulations

Time	Activity	Location/Room	Mon 25	Tue 26	Wed 27	Thr 28	Fri 29	Sat 30	Sun 31
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace	Breakfast		Breakfast @ Winter Palace	Breakfast @ Winter Palace <b>Lecture begins at 8:30AM</b> Experimental QEC - Superconducting Qubits <b>Maika Takita, IBM Quantum</b> Antonio Córcoles, IBM Quantum <u>Andreas Wallraff, ETH Zurich</u>	Breakfast	Breakfast: 7:00AM - 9:30AM @ Winter Palace  Lunch: 12:00PM - 1:30PM @ Winter Palace	Students Depart  Breakfast: 7:00AM - 9:30AM
9:00AM - 10:30AM	Lecture I	New York	LDPC Codes Nikolas Breuckmann, UCL <b>Nicolas Delfosse, Microsoft</b>	Programming QEC Simulations Andrew Cross, IBM Quantum	Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich	<b>Lecture begins at 10:00AM</b> Programming QEC Simulations Andrew Cross, IBM Quantum	LDPC Codes <b>Nikolas Breuckmann, UCL</b> Nicolas Delfosse, Microsoft		
10:30AM - 11:00AM	Morning Tea Break	Atrium Lobby	Morning Tea Break			<b>Bus leaves at 11:45AM</b>  <b>Andreas Wallraff, ETH Zurich</b>	Morning Tea Break		
11:00AM - 12:30PM	Lecture II	New York	Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum <b>Andreas Wallraff, ETH Zurich</b>	LDPC Codes <b>Nikolas Breuckmann, UCL</b> Nicolas Delfosse, Microsoft	LDPC Codes Nikolas Breuckmann, UCL <b>Nicolas Delfosse, Microsoft</b>		Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum <b>Andreas Wallraff, ETH Zurich</b>		
12:30PM - 1:25PM	Lunch	Winter Palace/West Terrace	Lunch		Lunch @ Winter Palace	Social Event: IBM Research BBQ & Lab Tour at IBM Yorktown	Lunch		
1:30PM - 2:00PM	Q&A Sessions	New York	Q&A Session LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Q&A Session Programming QEC Simulations Andrew Cross, IBM Quantum	Q&A Session Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich		Q&A Session LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft		
2:00PM - 2:30PM		New York	Q&A Session Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich	Q&A Session LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Q&A Session LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Q&A Session Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich			
2:30PM - 4:30PM	Unstructured Time	<u>N/A</u> New York	Unstructured Time		Unstructured Time		Unstructured Time		
4:30PM - 5:00PM	Open Problems, Student Talks, Crazy Ideas	New York	Student Talks @ 4:00PM  Matt McEwen Joshua Ramette Arkin Tikku Paul Herringer	Student Talks @ 4:00PM  Nathan Lacroix Zohar Schwartzman-Nowik Daniel Solis Boris Varbanov Shraddha Singh Alex Townsend-Teague	Capacities for Correcting Quantum Errors Vikesh Siddhu, IBM Quantum		Open Problems - Part II LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft		
5:00PM - 5:30PM					Open Problems - Part I Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich		Open Problems - Part II Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich		
5:30PM - 6:00PM	Unstructured Time	N/A	Unstructured Time		Open Problems - Part I LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Unstructured Time			
6:00PM - 6:55PM	Dinner	Winter Palace/West Terrace	Dinner		Dinner @ Winter Palace	Dinner @ Winter Palace	Team Building: 6:00PM - 7:30PM @ West Terrace  Dinner: 7:30PM - 9:00PM @Winter Palace	Closing Dinner & Keynote Speaker Sergey Bravyi, IBM Quantum @ Carriage House	
7:00PM - 8:00PM	Guest Lectures/Social Time	New York	Guest Lecture Anirudh Krishna, Stanford University	Unstructured Time	Guest Lecture, Ted Yoder, IBM Quantum	Unstructured Time		Speaker Social	
8:00PM - 9:00PM	Social	Atrium Lobby	Speaker Social		Speaker Social				