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	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 **Nicolas Delfosse, Microsoft**	Programming QEC Simulations Andrew Cross, IBM Quantum	Experimental QEC - Superconducting Qubits Maika Takita & **Antonio Córcoles, IBM Quantum** Andreas Wallraff, ETH Zurich	***Lecture begins at 8:30AM*** Experimental QEC - Superconducting Qubits **Maika Takita, IBM Quantum** Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich	LDPC Codes **Nikolas Breuckmann, UCL** Nicolas Delfosse, Microsoft		
10:30AM - 11:000AM	Morning Tea Break	*Atrium Lobby*	Morning Tea Break			***Lecture begins at 10:00AM*** Programming QEC Simulations Andrew Cross, IBM Quantum	Morning Tea Break		
11:00AM - 12:30PM	Lecture II	*New York*	Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum **Andreas Wallraff, ETH Zurich**	LDPC Codes **Nikolas Breuckmann, UCL** Nicolas Delfosse, Microsoft	LDPC Codes Nikolas Breuckmann, UCL **Nicolas Delfosse, Microsoft**	***Bus leaves at 11:45AM*** Social Event: IBM Research BBQ & Lab Tour at IBM Yorktown	Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum **Andreas Wallraff, ETH Zurich**		
12:30PM - 1:25PM	Lunch	*Winter Palace/West Terrace*	Lunch		Lunch @ Winter Palace		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	*N/A*	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	Guest Lecture Craig Gidney, Google *on Webex*	Guest Lecture, Ted Yoder, IBM Quantum	Unstructured Time			
8:00PM - 9:00PM	Social	*Atrium Lobby*	Speaker Social	Speaker Social	Speaker Social			Speaker Social	