QEC Summer School Schedule

As of July 18 subject to change.

Week 3

QEC Decoding Experimental QEC - Trapped Ions Programming QEC Simulations

				Programming QEC Simulations				
Time Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun
	,	18	19	20	21	22	23	24
7:00AM - 8:55AM Breakfast	Winter Palace/West Terrace	Breakfast @ Library	and the Music Room (Rooms b					
9:00AM - 10:30AM Lecture I	New York	QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	Programming QEC Simulations Andrew Cross, IBM Quantum	Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield		
10:30AM - 11:000AM Break	Atrium Lobby			Morning Tea Break			-	
11:00AM - 12:30PM Lecture II	New York	Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	Programming QEC Simulations Andrew Cross, IBM Quantum	Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum		
12:30PM - 1:25PM Lunch	Winter Palace/West Terrace	Lunch @ Library a	nd the Music Room (Rooms bef	ore Winter Palace)	Lui	nch		
1:30PM - 2:00PM	New York	Q&A Session QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	Q&A Session Programming QEC Simulations Andrew Cross, IBM Quantum	Q&A Session Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum		Q&A Session QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane &	Kivel view Kooiii	Study/Off Breakfast: 7:00AM - 9:30Af @ Winter Palace Lunch: 12:00PM - 1:30PM @ Winter Palace
Q&A Sessions 2:00PM - 2:30PM	New York	Q&A Session Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Ouantinuum	Q&A Session QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	Q&A Session QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	Crazy Ideas Session	University of Sheffield Q&A Session Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Ouantinuum		
2:30PM - 4:30PM	N/A	Unstructured Time		Unstructured Time			Dinner: 6:00PM - 9:00PM	Dinner: 6:00PM - 9:00PM @ Library and the Music Roo
Time	New York						@ Library and the Music Room	(Rooms before Winter Palac
4:30PM - 5:00PM Open Problems, Student Talks, Crazy Ideas 5:00PM - 5:30PM	New York	Student Talks @ 4:00PM Felix Thomsen Friederike Butt Varun Seshadri Marco Ballarin Basudha Srivastava Mark Webster	Student Talks @ 4:00PM Arthur Pesah Julian Ding David Scheer Georgia Nixon Ohad Lib Ross Shillito	Open Problems - Part I Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum Open Problems - Part I QEC Decoding Christopher Chubb, ETH Zurich	Q&A Session Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum Q&A Session Programming QEC Simulations	Open Problems - Part II QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield Open Problems - Part II Experimental QEC - Trapped Ions Ken Brown, Duke University	(Rooms before Winter Palace	
				Earl Campbell, Riverlane & University of Sheffield	Andrew Cross, IBM Quantum	Ciaran Ryan-Anderson, Quantinuum		
5:30PM - 6:00PM Time	N/A			Unstructured Time	0	I		
6:00PM - 6:55PM Dinner	Winter Palace/West Terrace	Dinner	Dinner @ Winter Palace	Dinner	Social Event: Diversity Panel @ Mary Duke Ballroom (A)	Dinner		
				Guest Lecture		0	1	
7:00PM - 8:00PM Lectures/Social Time	New York	Guest Lecture Aleksander Kubica, AWS	Unstructured Time	Michael Vasmer, Perimeter Institute	Dinner @ Winter Palace	Guest Lecture Leo DiCarlo, TU Delft		

QEC Summer School Schedule

As of July 18 subject to change.

Week 4

LDPC Codes

Experimental QEC - Superconducting Qubits

Programming QEC Simulations

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	-	kfast	Breakfast @ Winter Palace	Breakfast @ Winter Palace Lecture begins at 8:30AM Experimental QEC -	Breakfast	30	31		
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	Superconducting Qubits Maika Takita, IBM Quantum Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich	LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft				
	Morning Tea Break	Atrium Lobby		Morning Tea Break	Lecture begins at 10:00AM Programming QEC Simulations		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		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	Social Event: IBM Research BBQ & Lab Tour at IBM Yorktown	Lunch				
1:30PM - 2:00PM		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	- TOUL ALTERITORIOWIT	Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Breakfast: 7:00AM - 9:30AM @ Winter Palace Lunch: 12:00PM - 1:30PM	Students Depart Breakfast: 7:00AM - 9:30AN		
2:00PM - 2:30PM	Q&A Sessions	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	ubits onio utum			
2:30PM - 4:30PM	Unstructured Time	N/A New York		ured Time	Unstructured Time		Unstructured Time				
	Open Problems,		Student Talks @ 4:00PM Matt McEwen Joshua Ramette	Student Talks @ 4:00PM Nathan Lacroix Zohar Schwartzman-Nowik	Open Problems - Part I Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich		Open Problems - Part II LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft				
5:00PM - 5:30PM	Student Talks, Crazy Ideas - 5:30PM	ent Talks, v Ideas	Neema Badihian Arkin Tikku Harriet Apel Paul Herringer	Armanda Quintavalle Boris Varbanov Alex Townsend-Teague	Open Problems - Part I LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft		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			1			
6:00PM - 6:55PM		Winter Palace/West Terrace	Din	nner	Dinner @ Winter Palace	Dinner @ Winter Palace	Team Building: 6:00PM - 7:30PM	Closing Dinner & Keynote Speaker			
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	@ West Terrace Dinner:	Sergey Bravyi, IBM Quantum @ Carriage House			
8:00PM - 9:00PM		Atrium Lobby	Speaker Social		Speaker Social	-	7:30PM - 9:00PM @Winter Palace	Speaker Social			