QEC Summer School Schedule

As of July 20 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
	,	, in the second second	18	19	20	21	22	23	24
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace	Breakfast @ Library	and the Music Room (Rooms be	efore Winter Palace)	ore Winter Palace) Breakfast			
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		
	Morning Tea 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		Study/Off Breakfast: 7:00AM - 9:30AM @ Winter Palace Lunch: 12:00PM - 1:30PM @ Winter Palace
12:30PM - 1:25PM	Lunch	Winter Palace/West Terrace	Lunch @ Library a	and the Music Room (Rooms befo	ore Winter Palace)	Lur	nch		
1:30PM - 2:00PM	New Yo	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 & University of Sheffield	QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield Christopher Chubb, ETH Social Event:	
2:00PM - 2:30PM	Q&A Sessions	New York	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 & University of Sheffield	Q&A Session QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	- Crazy Ideas Session	Q&A Session Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	Scavenger Hunt 10AM - 12PM Riverview Room Lunch: 12:00PM - 1:30PM @ Winter Palace	
2:30PM - 4:30PM	Unstructured Time	N/A	Unstructured Time		Unstructured Time			Dinner: 6:00PM - 9:00PM	Dinner: 6:00PM - 9:00PM @ Library and the Music Room (Rooms before Winter Palace
		New York				T	T	@ Library and the Music Room	(Rooms before winter Palace
4:30PM - 5:00PM	Open Problems, Student Talks, Crazy Ideas	oblems, udent Talks, New York	Student Talks @ 4:00PM Felix Thomsen Friederike Butt Varun Seshadri	Student Talks @ 4:00PM Arthur Pesah Julian Ding David Scheer	Unstructured Time	Q&A Session Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	Open Problems - Part II QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	(Rooms before Winter Palace)	
			Marco Ballarin Basudha Srivastava Mark Webster	Georgia Nixon Ohad Lib Ross Shillito	Open Problems - Part I Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	Q&A Session Programming QEC Simulations Andrew Cross, IBM Quantum	Open Problems - Part II Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum		
5:30PM - 6:00PM	Unstructured Time	N/A							
6:00PM - 6:55PM		Winter Palace/West Terrace	Dinner	Dinner @ Winter Palace	Dinner	Social Event: Diversity Panel @ Mary Duke Ballroom (A)	Dinner	1	
7.00DM 0.00DM	Guest Lectures/Social	New York	Guest Lecture		Guest Lecture Michael Vasmer,	Dinner @ Winter Palace	Guest Lecture Leo DiCarlo, TU Delft	1	
7:00PM - 8:00PM	Time		Aleksander Kubica, AWS	Unstructured Time	Perimeter Institute		Leo Dicarto, 10 Detit	1	

QEC Summer School Schedule

As of July 20 subject to change.

Week 4

LDPC Codes

Experimental QEC - Superconducting Qubits

Programming QEC Simulations

7		1			Programming QEC Simulations		1		T
Time	Activity	Location/Room	Mon 25	Tue 26	Wed 27	Thr	Fri	Sat 30	Sun 31
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace	-	kfast	Breakfast @ Winter Palace	28 29 Breakfast @ Winter Palace Lecture begins at 8:30AM Experimental QEC -		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		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	SPM 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	- Tour at IBM Torktown	Q&A Session LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Breakfast: 7:00AM - 9:30AM @ Winter Palace Lunch: 12:00PM - 1:30PM	Students Depart Breakfast: 7:00AM - 9:30AI
2:00PM - 2:30PM	Q&A Sessions	Q&A Session Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zuric	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	@ Winter Palace	Bleakiast. 7.00AM - 9.30AM	
2:30PM - 4:30PM	Unstructured	N/A New York		ured Time	Unstructured Time		Unstructured Time		
	Open Problems, Student Talks, Crazy Ideas 5:30PM	ms, <i>New York</i> nt Talks, 'deas	Matt McEwen Nathan I Joshua Ramette Zohar Schwart	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			Neema Badihian Arkin Tikku Harriet Apel Paul Herringer	Daniel Solis 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				
6:00PM - 6:55PM		Winter Palace/West Terrace	Dir	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	