As of July 13 subject to change.

### Week 1

QEC Foundations
Bosonic Code Foundations
Programming OEC Decoders

					Programming QEC Decoders					
Time	Activity	Location/Room	Mon	Tue	Wed 6	<b>Thr</b> 7	Fri 8	Sat	Sun	
7:00AM - 8:55AM		Biddle Mansion - Winter Palace/West Terrace	4	5	9	10				
9:00AM - 10:30AM	Lecture I	New York		Meet @ 8:45AM for First Day Logistics QEC Foundations Steve Flammia, AWS	Programming QEC Decoders James Wootton, IBM Quantum	Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	QEC Foundations Steve Flammia, AWS		
10:30AM - 11:000AM	Morning Tea Break	Atrium Lobby								
11:00AM - 12:30PM	Lecture II	New York		Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	QEC Foundations Steve Flammia, AWS	QEC Foundations Steve Flammia, AWS	Programming QEC Decoders James Wootton, IBM Quantum	Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS		
12:30PM - 1:25PM	Lunch	Biddle Mansion - Winter Palace/West Terrace								
1:30PM - 2:00PM		New York	Students Arrive	Q&A Session QEC Foundations Steve Flammia, AWS	Q&A Session Programming QEC Decoders James Wootton, IBM Quantum	Q&A Session Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	Q&A Session Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	Q&A Session QEC Foundations Steve Flammia, AWS	Study/Off  Breakfast: 7:00AM - 9:30AM Lunch: 12:00PM - 1:30PM	
2:00PM - 2:30PM	-Q&A Sessions	New York		Q&A Session Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	Q&A Session QEC Foundations Steve Flammia, AWS	Q&A Session QEC Foundations Steve Flammia, AWS	Q&A Session Programming QEC Decoders James Wootton, IBM Quantum	Q&A Session Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS		
2:30PM - 4:30PM	Unstructured Time	N/A		Unstructured Time/ Office Hours with Admin Team for on-site support		Unstructured Time	Unstructured Time	Unstructured Time	Dinner: 6:00PM - 9:00PM	
4:30PM - 5:00PM	Open Problems,	No. Ye /			Unstructured Time	Open Problems - Part I QEC Foundations Steve Flammia, AWS	Drew Vandeth, Sh	Open Problems - Part II Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS		
5:00PM - 5:30PM	Student Talks, Crazy Ideas	-	New York		Unstructured Time	Open Problems - Part I Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	Crazy Ideas Session IDA Rules Drew Vandeth, IBM Quantum	Open Problems - Part II QEC Foundations Steve Flammia, AWS		
5:30PM - 6:00PM	Unstructured Time	N/A								
6:00PM - 6:55PM	Dinner	Biddle Mansion - Winter Palace/West Terrace	4th of July Event	Opening Dinner @ Mary Duke Ballroom Opening Remarks Zaira Nazario, IBM Research	Dinner	Social Event: Women in Quantum Social & Dinner	Dir	iner		
7:00PM - 8:00PM	Guest Lectures/Socia Time	ures/Social New York	@ Duke Terrace	Keynote Speaker, Daniel Gottesman, UMD Mary Duke Ballroom	Guest Lecture Natalie Brown, Quantinuum	@ West Terrace	Guest Lecture Liang Jiang, The University of Chicago	Unstructured Time		
8:00PM - 9:00PM	Social	Atrium Lobby		Speaker Social	Speaker Social		Speaker Social			

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#### Week 2

Fault Tolerance - Logistical Gates
Experimental QEC - Bosonic Codes
Programming QEC Decoders

	T	Tr.			Experimental QEC - Bosonic Cod Programming QEC Decoders				1	
Time	Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun	
		Winter	11	12	13	14	15	16	17	
7:00AM - 8:55AM	Breakfast	Palace/West Terrace			Breakfast					
9:00AM - 10:30AM	Lecture I	New York	Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum	Programming QEC Decoders James Wootton, IBM Quantum	Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University	Experimental QEC - Bosonic Codes Alec Eickbusch, Yale University Volodymyr Sivak, Yale University	Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum			
L0:30AM - 11:000AM	Morning Tea Break	Atrium Lobby			Morning Tea Break	- Chiverency				
11:00AM - 12:30PM		New York	Experimental QEC - Bosonic Codes Michel Devoret, Alec Eickbusch, & Volodymyr Sivak, Yale University	Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum	Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum	Programming QEC Decoders James Wootton, IBM Quantum	Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University			
12:30PM - 1:25PM	Lunch	Winter Palace/West Terrace			Lunch					
1:30PM - 2:00PM	004.6	New York	Q&A Session Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum	Q&A Session Programming QEC Decoders James Wootton, IBM Quantum	Q&A Session Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University	Q&A Session Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University	Q&A Session Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum	Breakfast: 7:00AM - 9:30AM  Lunch: 11:30AM - 12:00PM  Lunch will be a boxed lunch provided in the Atrium  Hudson River Cruise Bus Departs: 12:15PM Cruise: 1:00PM - 4:30PM	Study/Off Breakfast: 7:00AM - 9:30/ Lunch: 12:00PM - 1:30Pl Dinner: 6:00PM - 9:00PN	
2:00PM - 2:30PM	-Q&A Sessions	New York	Q&A Session Experimental QEC - Bosonic Codes Michel Devoret, Alec Eickbusch, & Volodymyr Sivak, Yale	Q&A Session Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum	Q&A Session Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiOuantum	Q&A Session Programming QEC Decoders James Wootton, IBM Quantum	Q&A Session Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University			
2:30PM - 4:30PM	Unstructured Time	N/A	Votedynnyn Givany rate	Danier Element, Folgaantam	Dinner: 6:00PM - 9:00PM	I				
4:30PM - 5:00PM	Open Problems, Student Talks, Crazy Ideas	Open Problems, New York Student Talks,	en pblems, pdems, <i>New York</i> Student Talks Student Talks	Student Talks	Student Talks	Open Problems - Part I Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University	- Crazy Ideas Session	Open Problems - Part II Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiOuantum	Jilliner: 6:00PM - 9:00PM	
5:00PM - 5:30PM				Open Problems - Part I Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski. PsiOuantum		Open Problems - Part II Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University				
5:30PM - 6:00PM	Unstructured Time	N/A			Unstructured Time					
6:00PM - 6:55PM		Winter Palace/West Terrace		Dinner						
7:00PM - 8:00PM	Guest Lectures/Social Time		Guest Lecture Chen Wang, UMass Amherst	Unstructured Time	Unstructured Time	Unstructured Time	Guest Lecture Guanyu Zhu, IBM Quantum			
8:00PM - 9:00PM	Social	Atrium Lobby	Speaker Social				Speaker Social			

As of July 13 subject to change.

### Week 3

QEC Decoding
Experimental QEC - Trapped Ions
Programming OEC Simulations

					Programming QEC Simulations	<u> </u>			
Time	Activity	Location/Room	<b>Mon</b> 18	<b>Tue</b> 19	<b>Wed</b> 20	Thr 21	<b>Fri</b> 22	<b>Sat</b> 23	<b>Sun</b> 24
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace	16	19	Breakfast	21		23	24
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	t	
10.300M - 11.0000M	Morning Tea Break	Atrium Lobby							
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				
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, Ouantinuum	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	Social Event TBA Breakfast: 7:00AM - 9:30AM Lunch & Dinner: TBA	
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	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		Study/Off  Breakfast: 7:00AM - 9:30 Lunch: 12:00PM - 1:30 Dinner: 6:00PM - 9:00F
2:30PM - 4:30PM	Unstructured	N/A	Unstructi	ured Time		Unstructured Time			
	Open Problems, Student Talks, Crazy Ideas	Open	Student Talks @ 4:00PM Student Talks @ 4:00PM	Open Problems - Part I 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			
		tudent Talks, New York		Catalon value e 11501	Open Problems - Part I QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	- Crazy Ideas Session	Open Problems - Part II Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum		
5:30PM - 6:00PM	Unstructured Time	N/A			Unstructured Time				
6:00PM - 6:55PM	-	Winter Palace/West Terrace		Dinner		Social Event: Diversity Panel @ Mary Duke Ballroom	Dinner		
7:00PM - 8:00PM	Guest Lectures/Social Time		Guest Lecture Aleksander Kubica, AWS	Unstructured Time	Guest Lecture Michael Vasmer, Perimeter Institute	Dinner @ Mary Duke Ballroom	Guest Lecture Leo DiCarlo, TU Delft		
8:00PM - 9:00PM	M Social	Atrium Lobby	Speaker Social		Speaker Social	Unstructured Time	Speaker Social		

As of July 13 subject to change.

### Week 4

#### LDPC Codes

Experimental QEC - Superconducting Qubits
Programming QEC Simulations

Programming QEC Simulations										
Time	Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun	
Time	Activity	Location, noon	25	26	27	28	29	30	31	
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace		Breakfast		Breakfast  Lecture begins at 8:30AM  Experimental QEC -	Breakfast			
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 Crocles, IBM Quantum Andreas Wallraff, ETH Zurich	Superconducting Qubits Maika Takita, IBM Quantum Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich  Lecture begins at 10:00AM	LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft			
10:30AM - 11:000AM	Morning Tea Break	Atrium Lobby		Morning Tea Break	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	Simulations Andrew Cross, IBM Quantum  Bus leaves at 11:45AM	Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich			
12:30PM - 1:25PM	Lunch	Winter Palace/West Terrace		Lunch		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		Q&A Session LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Social Event TBA  Breakfast: 7:00AM - 9:30AM Lunch & Dinner: TBA	Students Depart  Breakfast: 7:00AM - 9:30AM	
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		Steamast 7.50/11 7.50/11	
2.20DM 4.20DM	Unstructured	N/A		ured Time	Handwick and Time					
2:30PM - 4:30PM	Time	New York			Unstructured Time		Unstructured Time			
4:30PM - 5:00PM	Open Problems,	New York	Student Talks @ 4:00PM	Student Talks @ 4:00PM	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	New York			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			Dinner			Closing Dinner & Keynote Speaker Sergey Bravyi,		
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	Social Event TBA	IBM Quantum @ Carriage House		
8:00PM - 9:00PM	Social	Atrium Lobby	Speaker Social		Speaker Social			Speaker Social		
		,	- Pro		- P				<u> </u>	