As of July 8 subject to change.

### Week 1

QEC Foundations
Bosonic Code Foundations
Programming OEC Decoders

		T	T	Programming QEC Decoders			T	
Time Activity	Location/Room	<b>Mon</b> 4	Tue 5	Wed 6	Thr 7	Fri 8	Sat	<b>Sun</b> 10
7:00AM - 8:55AM Breakfast	Biddle Mansion - Winter Palace/West Terrace	4		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				Morning Tea Break			
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	Study/Off Breakfast: 7:00AM - 9:30AM Lunch: 12:00PM - 1:30PM
12:30PM - 1:25PM Lunch	Biddle Mansion - Winter Palace/West Terrace				Lunch			
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	
Q&A Sessions 2:00PM - 2:30PM	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,	New York		Unstructured Time	Unstructured Time	Open Problems - Part I QEC Foundations Steve Flammia, AWS	Introduction to QEC Framework @ 4:00PM Drew Vandeth, IBM Quantum	Open Problems - Part II Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	
Student Talks, Crazy Ideas 5:00PM - 5:30PM	New Tork				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				Unstructured Time			
6:00PM - 6:55PM Dinner	Biddle Mansion - Winter Palace/West Terrace	4th of July Event @ Duke Terrace	Opening Dinner @ Mary Duke Ballroom Opening Remarks Zaira Nazario, IBM Research	Dinner	Social Event: Women in Quantum Social & Dinner	Din	ner	
Guest 7:00PM - 8:00PM Lectures/Social Time	l New York		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

					Programming QEC Decoders				
Time	Activity	Location/Room	<b>Mon</b> 11	<b>Tue</b> 12	Wed 13	Thr 14	<b>Fri</b> 15	<b>Sat</b> 16	<b>Sun</b> 17
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace	11	12	Breakfast	14		16	17
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		
10:30AM - 11:000AM	Morning Tea Break	Atrium Lobby			Morning Tea Break				
11:00AM - 12:30PM	Lecture II	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		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 - 12:30PM Hudson River Cruise : 1:00PM - 4:00PM	Study/Off Breakfast: 7:00AM - 9:30A Lunch: 12:00PM - 1:30PM Dinner: 6:00PM - 9:00PM
2:00PM - 2:30PM		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			Unstructured Time				
4:30PM - 5:00PM	Open Problems,	New York	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, PsiQuantum		
5:00PM - 5:30PM		tudent Talks, Crazy Ideas		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							
6:00PM - 6:55PM	Dinner	Winter Palace/West Terrace							
7:00PM - 8:00PM	Guest Lectures/Social Time	New York	Guest Lecture Chen Wang, UMass Amherst	Unstructured Time	Unstructured Time	Unstructured Time	Guest Lecture Guanyu Zhu, IBM Quantum		
8:00PM - 9:00PM		Atrium Lobby	Speaker Social				Speaker Social		

As of July 8 subject to change.

### Week 3

QEC Decoding
Experimental QEC - Trapped Ions
Programming OEC Simulations

Programming QEC Simulations										
Time	Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun	
		Winter	18	19	20	21	22	23	24	
7:00AM - 8:55AM	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		I	Morning Tea Break	1	I			
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		1	Lunch	,	1			
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 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			
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	Social Event TBA  Breakfast: 7:00AM - 9:30AM Lunch & Dinner: TBA	Study/Off  Breakfast: 7:00AM - 9:30A  Lunch: 12:00PM - 1:30PN  Dinner: 6:00PM - 9:00PN	
2:30PM - 4:30PM	Unstructured Time	N/A			Unstructured Time					
4:30PM - 5:00PM					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			
	Student Talks, Crazy Ideas	New York	Student Talks	Student Talks	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	N/A				1				
6:00PM - 6:55PM	Time Dinner	Winter Palace/West Terrace		Dinner		Social Event: Diversity Panel @ Mary Duke Ballroom	Dinner			
7:00PM - 8:00PM	Guest Lectures/Social Time	New York	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	Social	Atrium Lobby	Speaker Social		Speaker Social	Unstructured Time	Speaker Social			

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### Week 4

LDPC Codes

Experimental QEC - Superconducting Qubits

Programming QEC Simulations

Programming QEC Simulations										
Time	Activity	Location/Room		<b>Tue</b> 26	<b>Wed</b> 27	<b>Thr</b> 28	<b>Fri</b> 29	<b>Sat</b> 30	Sun	
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace	25	Breakfast	21	Breakfast  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		Programming QEC Simulations Andrew Cross, IBM Quantum  Bus leaves at 11:45AM	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		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 ALIEM TORLOWII	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 - 9:30Af	
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	Culcing Similar 15.	Bleaklast. 7.00AH - 2.30AH	
2:30PM - 4:30PM	Unstructured Time	N/A		Unstructured Time			Unstructured Time			
4:30PM - 5:00PM	Open Problems,	New York	Student Talks	Student Talks	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 Fork	Student raiks	Student rains	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		