As of June 7 subject to change.

Week 1

QEC Foundations
Bosonic Code Foundations
Programming OEC Decoders

					Bosonic Code Foundations Programming QEC Decoders				
Time	Activity	Location/Room	Mon	Tue	Wed 6	Thr 7	Fri 8	Sat 9	Sun
7:00AM - 8:55AM		Biddle Mansion - Winter Palace/West	4	5	10				
9:00AM - 10:30AM		Terrace 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		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		Sunnyside	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	
2:00PM - 2:30PM	-Q&A Sessions			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	Study/Off Breakfast: 7:00AM - 9:30AM Lunch: 12:00PM - 1:30PM
2:30PM - 4:30PM	Unstructured Time	N/A		Unstructured Time/ Office Hours with Admin Team for on-site support		Dinner: 6:00PM - 9:00PM			
4:30PM - 5:00PM	Open Problems,	oblems, udent Talks, New York	Understand Time	Uncharactured Time	Open Problems - Part I QEC Foundations Steve Flammia, AWS	Crazy Ideas Session IDA Rules	Open Problems - Part II Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS		
5:00PM - 5:30PM	Student Talks, Crazy Ideas			Unstructured Time	Unstructured Time	Open Problems - Part I Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	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		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	Din	nner	
7:00PM - 8:00PM	Guest Lectures/Social Time	l 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

					Experimental QEC - Bosonic Con Programming QEC Decoders				
Time	Activity	Location/Room	Mon 11	Tue 12	Wed 13	Thr 14	Fri 15	Sat 16	Sun 17
7:00AM - 8:55AM	Breakfast	Winter Palace/West	11	12	Breakfast	14	15	10	17
9:00AM - 10:30AM	Lecture I	Terrace 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		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		Sunnyside	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	
2:00PM - 2:30PM	-Q&A Sessions	Lyndhurst	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, PsiOuantum	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	Lunch: 11:30AM - 12:30PM Hudson River Cruise: 1:00PM - 4:00PM Dinner: 6:00PM - 9:00PM	Study/Off Breakfast: 7:00AM - 9:30AM Lunch: 12:00PM - 1:30PM Dinner: 6:00PM - 9:00PM
2:30PM - 4:30PM	Unstructured Time	N/A			Unstructured Time				
4:30PM - 5:00PM		pen roblems, tudent Talks, <i>New York</i> Student Talks Student Talks		Open Problems - Part I Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University		Open Problems - Part II Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum			
5:00PM - 5:30PM	Student Talks, Crazy Ideas		Open Problems - Part I Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum	- Crazy Ideas Session	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		

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Week 3

QEC Decoding
Experimental QEC - Trapped Ions
Programming OEC Simulations

Experimental QEC - Trapped Ions Programming QEC Simulations									
Time Activity	Location/Room	Mon 18	Tue 19	Wed 20	Thr 21	Fri 22	Sat 23	Sun 24	
7:00AM - 8:55AM Breakfast	Winter Palace/West Terrace	18	19	Breakfast	21	22	23	24	
9:00AM - 10:30AM Lecture I	New York	QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, AWS	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, AWS			
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, AWS	QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, AWS	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	Sunnyside	Q&A Session QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, AWS	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, AWS			
Q&A Sessions 2:00PM - 2:30PM	Lyndhurst	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, AWS	Q&A Session QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, AWS	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 - 9:30AM Lunch: 12:00PM - 1:30PM Dinner: 6:00PM - 9:00PM	
2:30PM - 4:30PM Time	N/A			Unstructured Time					
4:30PM - 5:00PM Open Problems,	New York	Student Talks	Student Talks	Open Problems - Part I Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	- Crazy Ideas Session	Open Problems - Part II QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, AWS			
Student Talks, Crazy Ideas 5:00PM - 5:30PM	New York	Student rains	Stagent rains	Open Problems - Part I QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, AWS	State y 20083 36331011	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 Dinner	Winter Palace/West Terrace		Dinner		Social Event: Diversity Panel @ Mary Duke Ballroom	Dinner			
7:00PM - 8:00PM 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

				erimental QEC - Superconducting Programming QEC Simulation	s			
Time Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun
7:00AM - 8:55AM Breakfast	Winter Palace/West Terrace	25	26 Breakfast	27	28 Breakfast Lecture begins at 8:30AM Experimental QEC -	29 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		
10:30AM - 11:000AM Morning Tea Break	Atrium Lobby	y Morning Tea Break			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	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	Lunch		
1:30PM - 2:00PM	Sunnyside	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 Yorktown	Q&A Session LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Social Event TBA Breakfast: 7:00AM - 9:30AM Lunch & Dinner: TBA	Students Depart
Q&A Sessions	Lyndhurst	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	Luich & Dinier. 10A	Breakfast: 7:00AM - 9:30AM
2:30PM - 4:30PM Unstructured Time	N/A		Unstructured Time			Unstructured Time		
4:30PM - 5:00PM Open Problems, Student Talks.	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 Open Problems - Part II		
Crazy Ideas 5:00PM - 5:30PM				Open Problems - Part I LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft		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 Dinner	Winter Palace/West Terrace			Dinner			Closing Dinner & Keynote Speaker	
Guest 7:00PM - 8:00PM Lectures/Social Time	New York	Guest Lecture Anirudh Krishna, Stanford University	Unstructured Time	Guest Lecture, Ted Yoder, IBM Quantum	Unstructured Time	Social Event TBA	Sergey Bravyi, IBM Quantum @ Carriage House	
8:00PM - 9:00PM Social	Atrium Lobby	Speaker Social	1	Speaker Social	1		Speaker Social	