As of June 7 subject to change.

### Week 1

QEC Foundations
Bosonic Code Foundations
Programming OEC Decoders

		T T		<b>-</b>	Programming QEC Decoders				
Time	Activity	Location/Room	<b>Mon</b> 4	<b>Tue</b> 5	Wed 6	<b>Thr</b> 7	Fri 8	Sat 9	<b>Sun</b> 10
7:00AM - 8:55AM	Breakfast	Biddle Mansion - Winter Palace/West Terrace	4	3	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	1
L0:30AM - 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	Biddle Mansion - Winter Lunch 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	Study/Off
2:00PM - 2:30PM	Q&A Sessions  Lyndh	Lyndhurst		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	Breakfast: 7:00AM - 9:3 Lunch: 12:00PM - 1:30 Dinner: 6:00PM - 9:00f
2:30PM - 4:30PM	Unstructured Time	N/A							
4:30PM - 5:00PM	Open Problems, Student Talks, Crazy Ideas	olems, dent Talks,	Unstructured Time / Office Hours with Admin Team for on-site support	Unstructured Time	Open Problems - Part I QEC Foundations Steve Flammia, AWS	Crazy Ideas Session — IDA Rules Drew Vandeth, IBM Quantum	Open Problems - Part II Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	ns ity	
5:00PM - 5:30PM					Open Problems - Part I Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS		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 Dinner Social Event: Women in Quantum Social					Din		
7:00PM - 8:00PM	Guest		4th of July Event @ Duke Terrace	Keynote Speaker, Daniel Gottesman, UMD Mary Duke Ballroom	Guest Lecture Natalie Brown, Quantinuum	Women in Quantum Social  @ West Terrace	Guest Lecture Liang Jiang, The University of Chicago	Unstructured Time	
8:00PM - 9:00PM	1 Social Atrium Lobby		Speaker Social	Speaker Social		Speaker Social			

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#### Week 2

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

					Experimental QEC - Bosonic Cor Programming QEC Decoders					
Time	Activity	Location/Room	Mon 11	Tue 12	Wed 13	Thr 14	Fri 15	<b>Sat</b> 16	Sun 17	
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace			Breakfast		10	10		
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		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	1		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 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	Social Event: IBM Yorktown Lab Visit	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			Unstructured Time  Open Problems - Part II  Fault Tolerance - Logical  Gates  Ben Brown,  IBM Quantum  Daniel Litinski, PsiQuantum			
4:30PM - 5:00PM		No. No. I			Open Problems - Part I Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University					
5:00PM - 5:30PM	Student Talks, Crazy Ideas	Crazy Ideas	New York	Student Talks	Student Talks	Open Problems - Part I Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski. PsiQuantum	Unstructured Time	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	New York	Guest Lecture Chen Wang, UMass Amherst	Unstructured Time	Guest Lecture TBD	Unstructured Time	Guest Lecture Guanyu Zhu, IBM Quantum			
8:00PM - 9:00PM		Atrium Lobby	Speaker Social		Speaker Social		Speaker Social			

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### Week 3

QEC Decoding
Experimental QEC - Trapped Ions
Programming OEC Simulations

				Experimental QEC - Trapped Io Programming QEC Simulation				
Time Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun
7:00AM - 8:55AM Breakfast	Winter Palace/West Terrace	18	19	20 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 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, 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 - 0&A Sessions	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		
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				Open Problems - Part I QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, AWS		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 Lectures/Social	New York	Guest Lecture Aleksander Kubica, AWS	Unstructured Time	Guest Lecture Michael Vasmer Perimeter Institute	Dinner @ Mary Duke Ballroom	Guest Lecture Leo DiCarlo QuTech		
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										
Time Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun		
7:00AM - 8:55AM Breakfast	Winter Palace/West Terrace	25	26	27 Breakfast	28	29	30	Students Depart Breakfast: 7:00AM - 9:30AM		
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	Experimental QEC - 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			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	Programming QEC Simulations Andrew Cross, IBM Quantum	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				
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	Social Event: IBM Research BBQ at	Q&A Session LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Lunch & Dinner: TBA			
Q&A Sessions 2:00PM - 2:30PM	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	Yorktown Date TBC	Q&A Session Experimental QEC - Superconducting Qubits Maika Takita & Antonio Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich				
2:30PM - 4:30PM Unstructured Time	N/A		Unstructured Time			Unstructured Time				
4:30PM - 5:00PM  Open Problems, Student Talks, Crazy Ideas 5:00PM - 5:30PM	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 I LDPC Codes	- Crazy Ideas Session	Open Problems - Part II LDPC Codes Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft  Open Problems - Part II Experimental QEC - Superconducting Qubits				
				Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft		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	7		