As of July 4 subject to change.

### Week 1

QEC Foundations
Bosonic Code Foundations
Programming OEC Decodors

Bosonic Code Foundations Programming QEC Decoders											
Time	Activity	Location/Room	Mon	Tue 5	Wed 6	Thr 7	Fri 8	Sat	Sun		
7:00AM - 8:55AM	Breakfast	Biddle Mansion - Winter Palace/West Terrace	4	5	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			
.0:30AM - 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		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	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	Study/Off  Breakfast: 7:00AM - 9:30AI Lunch: 12:00PM - 1:30PM Dinner: 6:00PM - 9:00PM		
2:30PM - 4:30PM	Unstructured Time	N/A		Unstructured Time/ Office Hours with Admin Team for on-site support	fice Hours with Admin Team Unstructured Time						
4:30PM - 5:00PM	Open Problems, Student Talks, Crazy Ideas	ems, nt Talks, New York		Unstructured Time	Unstructured 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			Olea de da caracteria de la caracteria d		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 Dinner 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	Dinner				
7:00PM - 8:00PM	Guest Lectures/Socia Time	ocial 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 OEC Decoders

					Experimental QEC - Bosonic Con Programming QEC Decoders				
Time	Activity	Location/Room	Mon 11	<b>Tue</b> 12	Wed 13	Thr 14	<b>Fri</b> 15	<b>Sat</b> 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 - 9:30AN 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 oblems, udent Talks,  New York 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, PsiOuantum Open Problems - Part II Experimental QEC - Bosonic Codes Alec Eickbusch & Volodymyr Sivak, Yale University			
5:00PM - 5:30PM	Student Talks, Crazy Ideas		Student Talks Student Talks	Open Problems - Part I Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski. PsiOuantum	- Crazy Ideas Session				
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 Io Programming QEC Simulation				
Time	Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun
7:00AM - 8:55AM	-	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		
	Morning Tea Break	Atrium Lobby			Morning Tea Break				
11:00AM - 12:30PM		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		
2:00PM - 2:30PM	Q&A Sessions	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
7.30PM - 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 - 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	New York	Student raiks	Student fairs	Open Problems - Part I QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, AWS	Glazy 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	Dinner	Winter Palace/West Terrace		Dinner		Social Event: Diversity Panel @ Mary Duke Ballroom	Dinner		
7:00PM - 8:00PM	Guest Lectures/Social	New York	Guest Lecture Aleksander Kubica, AWS	Unstructured Time	Guest Lecture Michael Vasmer,	Dinner @ Mary Duke Ballroom	Guest Lecture Leo DiCarlo, TU Delft		
	Time		-	Olistructured Time	Perimeter Institute				

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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 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  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 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 Tour at IBM Yorktown	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 1514 Totalowii	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		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		Bleanast. 7.30AH 7.30AH	
2:30PM - 4:30PM	Unstructured Time	N/A		Unstructured Time			Unstructured Time			
4:30PM - 5:00PM		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			
	Student Talks, Crazy Ideas	New York	Student fairs	Student fairs	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		