As of July 24 subject to change.

#### Week 1

QEC Foundations
Bosonic Code Foundations
Programming OFC Decoders

					Programming QEC Decoders				
Time	Activity	Location/Room	Mon	Tue	Wed 6	<b>Thr</b> 7	Fri 8	Sat 9	Sun
7:00AM - 8:55AM		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	
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	n Unstructured Time	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, Shruti Puri, Yale University	Open Problems - Part II Bosonic Code Foundations Shruti Puri, Yale University Arne Grimsmo, AWS	
5:00PM - 5:30PM	Student Talks, Crazy Ideas	Talks, New York				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	/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		

As of July 24 subject to change.

#### Week 2

Fault Tolerance - Logistical Gates Experimental QEC - Bosonic Codes

					Programming QEC Decoders				
Time	Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	<b>Sun</b> 17
7:00AM - 8:55AM	Dunalifant	Winter Palace	11	12	13 Breakfast	14	15	16	17
9:00AM - 10:30AM		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 - 11:000AMI	Morning Tea Break	Atrium Lobby			Morning Tea Break	Oniversity			
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		ſ
12:30PM - 1:25PM	Lunch	Winter Palace			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  @Winter Palace  Lunch: 11:00AM - 11:15AM  Lunch will be a boxed lunch provided in the Atrium  Hudson River Cruise  Bus Departs: 11:30AM	Study/Off  Breakfast: 7:00AM - 9:30Al @Winter Palace  Lunch: 12:00PM - 1:30PM @Winter Palace
2:00PM - 2:30PM	Q&A Sessions	New York	Q&A Session Experimental QEC - Bosonic Codes Michel Devoret, Alec Eickbusch, & Volodymyr Siyak, 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. 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 - 4:30PMI	Unstructured Time	N/A	TOUGHTH STAIN AND	Cruise: 1:00PM - 4:30PM	Dinner: 6:00PM - 9:00PM @ Cellar 49 (Lower level of				
	Open Problems,	oblems, Ident Talks, Ident Talks, Izy Ideas  Sajant Anand Xanda Kolesnikow Daniel Miller Peter-Jan Derks	Student Talks Timo Hillmann	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	Dinner: 6:00PM - 9:00PM @ Cellar 49 (Lower level of Biddle Mansion)	Biddle Mansion)	
5:00PM - 5:30PM			Daniel Miller	Armands Strikis Aurélie Denys Kaavya Sahay	Open Problems - Part I Fault Tolerance - Logical Gates Ben Brown, IBM Quantum Daniel Litinski, PsiQuantum	Gazy Ideas Session	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	111110	Winter Palace			Dinner			+	
	Guest	New York	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	1	

As of July 24 subject to change.

#### Week 3

QEC Decoding Experimental QEC - Trapped Ions Programming QEC Simulations

					Programming QEC Simulations				
Time	Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun
ı iiile	Activity	-	18	19	20	21	22	23	24
7:00AM - 8:55AM	Breakfast	Winter Palace/West Terrace	Breakfast @ Library	and the Music Room (Rooms b	efore Winter Palace)	Brea	kfast		
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		
$10.30\Delta M - 11.000\Delta M$	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, 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 @ Library a	nd the Music Room (Rooms bef	ore Winter Palace)	Lur	nch		
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 QEC Decoding Christopher Chubb, ETH Zurich Earl Campbell, Riverlane & University of Sheffield	Breakfast: 7:00AM - 9:30AM @ Winter Palace Social Event:	Study/Off  Breakfast: 7:00AM - 9:30AM
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	- Crazy Ideas Session	Q&A Session Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	Scavenger Hunt 10AM - 12PM Riverview Room  Lunch: 12:00PM - 1:30PM @ Winter Palace	@ Winter Palace  Lunch: 12:00PM - 1:30PM @ Winter Palace  Dinner: 6:00PM - 9:00PM
2:30PM - 4:30PM	Unstructured Time	N/A	Unstructo	ured Time		Unstructured Time		Dinner: 6:00PM - 9:00PM	@ Library and the Music Roor (Rooms before Winter Palace
4:30PM - 5:00PM	Open Problems,	New York	Student Talks @ 4:00PM  Felix Thomsen  Friederike Butt	Student Talks @ 4:00PM  Arthur Pesah  Julian Ding	Unstructured Time	Q&A Session 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	@ Library and the Music Room (Rooms before Winter Palace)	
5:00PM - 5:30PM	Student Talks, Crazy Ideas	dent Talks,	Varun Seshadri Marco Ballarin Basudha Srivastava Mark Webster	David Scheer Georgia Nixon Ohad Lib Ross Shillito	Open Problems - Part I Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum	Q&A Session Programming QEC Simulations Andrew Cross, IBM Quantum	Open Problems - Part II Experimental QEC - Trapped Ions Ken Brown, Duke University Ciaran Ryan-Anderson, Quantinuum		
5:30PM - 6:00PM	Unstructured Time	N/A		1	Unstructured Time				
6:00PM - 6:55PM		Winter Palace/West Terrace	Dinner	Dinner @ Winter Palace	Dinner	Social Event: Diversity Panel @ Mary Duke Ballroom (A)	Dinner		
7:00PM - 9:00PM	Guest Lectures/Social	New York	Guest Lecture		Guest Lecture Michael Vasmer,	Dinner @ Winter Palace	Guest Lecture		
7.00FM - 8.00FM	Time		Aleksander Kubica, AWS	Unstructured Time	Perimeter Institute		Leo DiCarlo, TU Delft		

As of July 24 subject to change.

#### Week 4

LDPC Codes

Experimental QEC - Superconducting Qubits
Programming OEC Simulations

					Programming QEC Simulations				
Time	Activity	Location/Room	Mon	Tue	Wed	Thr	Fri	Sat	Sun
	-	Winter	25	26	27	28 Breakfast @ Winter Palace	29	30	31
7:00AM - 8:55AM	Breakfast	Palace/West	Breakfast		Breakfast @ Winter Palace	Lecture begins at 8:30AM	Breakfast		
		Terrace		1		Experimental QEC - Superconducting Qubits			
					Experimental QEC -	Maika Takita, IBM Quantum			
			LDPC Codes	Programming QEC	Superconducting Qubits	Antonio Córcoles, IBM	LDPC Codes		
9:00AM - 10:30AM	Lecture I	New York	Nikolas Breuckmann, UCL	Simulations	Maika Takita & Antonio	Quantum	Nikolas Breuckmann, UCL		
			Nicolas Delfosse, Microsoft	Andrew Cross, IBM Quantum	Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich	Andreas Wallraff, ETH Zurich	Nicolas Delfosse, Microsoft		
					Andreas Wattani, ETT Zunen	Lecture begins at 10:00AM			
10:30AM - 11:000AM	Morning Tea	Atrium Lobby	Morning Tea Break			Programming QEC	Morning Tea Break		
	Break	-	Experimental QEC -	-		Simulations	Experimental QEC -		
			Superconducting Qubits	LDPC Codes	LDPC Codes	Andrew Cross, IBM Quantum	Superconducting Qubits		
11:00AM - 12:30PM	Lecture II	New York	Maika Takita & Antonio	Nikolas Breuckmann, UCL	Nikolas Breuckmann, UCL		Maika Takita & Antonio		
			Córcoles, IBM Quantum		Nicolas Delfosse, Microsoft	Bus leaves at 11:45AM	Córcoles, IBM Quantum		
			Andreas Wallraff, ETH Zurich				Andreas Wallraff, ETH Zurich		
12:30PM - 1:25PM	Lunch	Winter Palace/West	Lunch		Lunch @ Winter Palace	Social Event:	Lunch		
12.50111 1.251111	Lunen	Terrace	Lu	nen	Lunch @ Winter Latace	IBM Research BBQ & Lab Tour at IBM Yorktown	Edilcii		
		7077400			Q&A Session	Tour at 15M forktown			
		New York	Q&A Session	Q&A Session	Experimental QEC -		Q&A Session		
1:30PM - 2:00PM			LDPC Codes	Programming QEC	Superconducting Qubits		LDPC Codes	Breakfast: 7:00AM - 9:30AM	
			Nikolas Breuckmann, UCL	Simulations	Maika Takita & Antonio		Nikolas Breuckmann, UCL	@ Winter Palace	
			Nicolas Delfosse, Microsoft	Andrew Cross, IBM Quantum	Córcoles, IBM Quantum Andreas Wallraff, ETH Zurich		Nicolas Delfosse, Microsoft	_	Students Depart
	Q&A Sessions		Q&A Session				Q&A Session	Lunch: 12:00PM - 1:30PM @ Winter Palace	Breakfast: 7:00AM - 9:30A
		New York	Experimental QEC -	Q&A Session	Q&A Session		Experimental QEC -	@ winter Palace	
2:00PM - 2:30PM			Superconducting Qubits	LDPC Codes	LDPC Codes		Superconducting Qubits		
			Maika Takita & Antonio Córcoles, IBM Quantum	Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	Nikolas Breuckmann, UCL Nicolas Delfosse, Microsoft	· ·	Maika Takita & Antonio Córcoles, IBM Quantum		
			Andreas Wallraff, ETH Zurich	Nicolas Deliosse, Microsoft	Nicolas Deliosse, Microsoft		Andreas Wallraff, ETH Zurich		
2:30PM - 4:30PM	Unstructured	N/A		ured Time	Unstructured Time				
2.30FM - 4.30FM	Time	New York			Unstructured Time		Unstructured Time		
	Open			Student Talks @ 4:00PM  Nathan Lacroix Zohar Schwartzman-Nowik	Capacities for Correcting Quantum Errors Vikesh Siddhu, IBM Quantum		Open Problems - Part II		
			Student Talks @ 4:00PM  Matt McEwen				LDPC Codes		
4:30PM - 5:00PM							Nikolas Breuckmann, UCL		
							Nicolas Delfosse, Microsoft		
	Problems,	New York	Joshua Ramette	Daniel Solis					
	Student Talks,		Arkin Tikku	Boris Varbanov	Open Problems - Part I		Open Problems - Part II		
	Crazy Ideas	as	Paul Herringer	Shraddha Singh	Experimental QEC - Superconducting Qubits		Experimental QEC - Superconducting Qubits		
5:00PM - 5:30PM				Alex Townsend-Teague	Maika Takita & Antonio		Maika Takita & Antonio		
					Córcoles, IBM Quantum		Córcoles, IBM Quantum		
					Andreas Wallraff, ETH Zurich		Andreas Wallraff, ETH Zurich		
					Open Problems - Part I				
5.30PM - 6.00PM	Unstructured	ctured N/A	Unstructured Time		LDPC Codes	Unstructured Time			
	Time				Nikolas Breuckmann, UCL				
		Winter	-		Nicolas Delfosse, Microsoft		Team Building: Closing Dinner	Closing Dinner	
6:00PM - 6:55PM	Dinner	Palace/West	Din	Dinner		Dinner @ Winter Palace	6:00PM - 7:30PM	& Keynote Speaker	
	01	Terrace	0				@ West Terrace	Sergey Bravyi,	
	Guest	New York	Guest Lecture Anirudh Krishna, Stanford		Guest Lecture,			IBM Quantum	
7:00PM - 8:00PM	Time	New TOIK	University	Unstructured Time	Ted Yoder, IBM Quantum	Unstructured Time	Dinner:	@ Carriage House	
		1		1		+	7:30PM - 9:00PM		1