



III. Schedule and Sign-in

Location: Grand Ballroom II+III
Monday Jan. 06

Time	Name	Title
09:15 - 09:30	Opening- Frank Wilczek	
09:30 - 10:30	Peter Zoller	Theory of Quantum Noise in Quantum Optics: A Quantum Information Perspective
10:30 - 10:45	Coffee break	
10:45 - 11:45	Peter Zoller	Theory of Quantum Noise in Quantum Optics: A Quantum Information Perspective
11:45 - 13:00	Lunch	
13:00 - 14:00	Frank Wilczek	Lagrangians that Support Time Crystals, and Their Quantization
14:00 - 14:15	Coffee break	
14:15 - 15:15	Frank Wilczek	Lagrangians that Support Time Crystals, and Their Quantization
15:15 - 15:30	Coffee break	
15:30 - 16:30	Wang Yao	2D Semiconductor Moiré Superlattices I: Excitons and Valley Optics
16:30 - 16:45	Coffee break	
16:45 - 17:45	Wang Yao	2D Semiconductor Moiré Superlattices I: Excitons and Valley Optics
17:45 - 18:00	Coffee break	
18:00 - 18:45	Q & A (Peter Zoller - Frank Wilczek - Wang Yao)	
19:00 - 21:00	Dinner	

Tuesday Jan. 07

Time	Name	Title
09:30 - 10:30	Michael Berry	Geometric Phases Old and New
10:30 - 10:45	Coffee break	
10:45 - 11:45	Michael Berry	Chaos and Quantum
11:45 - 13:00	Lunch	
13:00 - 14:00	Peter Zoller	Theory of Quantum Noise in Quantum Optics: A Quantum Information Perspective
14:00 - 14:15	Coffee break	
14:15 - 15:15	Peter Zoller	Theory of Quantum Noise in Quantum Optics: A Quantum Information Perspective
15:15 - 15:45	Coffee break	
16:00 - 17:00	Lin Li	Quantum Photonics and Quantum Information Processing with Rydberg Atoms
17:00 - 17:15	Coffee break	
17:15 - 18:15	Lin Li	Quantum Photonics and Quantum Information Processing with Rydberg Atoms
18:15 - 18:30	Coffee break	
18:30 - 18:45	Q & A (Michael Berry - Peter Zoller - Lin Li)	
19:00 - 21:00	Dinner	



Wednesday Jan. 08

Time	Name	Title
09:30 - 10:30	Wang Yao	2D Semiconductor Moiré Superlattices II: Quantum Geometric Properties and Topological Transport
10:30 - 10:45	Coffee break	
10:45 - 11:45	Wang Yao	2D Semiconductor Moiré Superlattices II: Quantum Geometric Properties and Topological Transport
11:45 - 13:00	Lunch	
13:00 - 14:00	Jian-Wei Pan	TBA
14:00 - 14:15	Coffee break	
14:15 - 15:15	Jian-Wei Pan	TBA
15:15 - 15:30	Coffee break	
15:30 - 16:00	Q & A (Jian-Wei Pan - Wang Yao)	
16:00 - 19:00	Poster Session	
19:00 - 21:00	Welcome Banquet	

Thursday Jan. 09

Time	Name	Title
09:30 - 11:30 (with 10 min break)	Jian-Wei Pan	TBA
11:30 - 13:45	Lunch break	
13:45 - 15:45 (with 10 min break)	Frank Wilczek	Lecture3: Discrete Time Crystals Lecture4: Time Crystal Tourism: Recent Developments
15:45 - 16:00	Coffee break	
16:00 - 18:00 (with 10 min break)	Lin Li	Quantum Photonics and Quantum Information Processing with Rydberg Atoms
18:00 - 18:45	Q & A (Jian-Wei Pan -Frank Wilczek - Lin Li)	
19:00 - 21:00	Dinner	



Friday Jan. 10

Time	Name	Title
09:30 - 11:30 (with 10 min break)	Yannis Semertzidis	Building a World-Class Axion Dark Matter Institute in Less Than 10 Years Axion Dark Matter Searches: Status and Prospects
11:30 - 12:15	Q & A (Yannis Semertzidis - Michael Berry)	
12:15 - 13:30	Lunch	
The afternoon is free		

Saturday Jan. 11

10:00	Social Program – Excursion
-------	----------------------------

Sunday Jan. 12

Free

Monday Jan. 13

Time	Name	Title
09:30 - 10:30	Allan MacDonald	Transition Metal Dichalcogenide Moire Materials
10:30 - 10:45	Coffee break	
10:45 - 11:45	Allan MacDonald	Equilibrium Electron-hole Fluids in van der Waals materials
11:45 - 13:00	Lunch	
13:00 - 14:00	Antti Niemi	Hamiltonian Time Crystals: From Cold Atom BEC to Molecular Motors
14:00 - 14:15	Coffee break	
14:15 - 15:15	Antti Niemi	Hamiltonian Time Crystals: From Cold Atom BEC to Molecular Motors
15:15 - 15:30	Coffee break	
15:30 - 16:30	Xiao-Bo Zhu	Superconducting Quantum Computing
16:30 - 16:45	Coffee break	
16:45 - 17:45	Xiao-Bo Zhu	Superconducting Quantum Computing
17:45 - 18:00	Coffee break	
18:00 - 18:45	Q & A (Allan MacDonald - Antti Niemi - Xiao-Bo Zhu)	
19:00 - 21:00	Dinner	



Tuesday Jan. 14

Time	Name	Title
09:30 - 10:30	Yannis Semertzidis	New Ideas Toward the Next Sensitivity Frontier in Axion Dark Matter Research
10:30 - 10:45	Coffee break	
10:45 - 11:45	Yannis Semertzidis	The Muon g-2 Experiment and Its History
11:45 - 13:00	Lunch	
13:00 - 14:00	Martin Greiter	Theory of Eigenstate Thermalization
14:00 - 14:15	Coffee break	
14:15 - 15:15	Martin Greiter	Theory of Eigenstate Thermalization
15:15 - 15:30	Coffee break	
15:30 - 16:30	Biao Huang	Shielding and Steering A Schrödinger' s Cat with Cat-scar Enforced Discrete Time Crystals
16:30 - 16:45	Coffee break	
16:45 - 17:45	Biao Huang	Shielding and Steering A Schrödinger' s Cat with Cat-scar Enforced Discrete Time Crystals
17:45 - 18:00	Coffee break	
18:00 - 18:45	Q & A (Yannis Semertzidis - Martin Greiter - Biao Huang)	
19:00 - 21:00	Dinner	

Wednesday Jan. 15

Time	Name	Title
09:30 - 10:30	Antti Niemi	Hamiltonian Time Crystals: From Cold Atom BEC to Molecular Motors
10:30 - 10:45	Coffee break	
10:45 - 11:45	Antti Niemi	Hamiltonian Time Crystals: From Cold Atom BEC to Molecular Motors
11:45 - 13:00	Lunch	
13:00 - 14:00	Qingdong Jiang	Lecture1: An Introduction to Casimir Effects and Cavity Quantum Materials
14:00 - 14:15	Coffee break	
14:15 - 15:15	Qingdong Jiang	Lecture2: The Rich Landscape of Casimir Effects — Force, Torque, and Friction
15:15 - 15:30	Coffee break	
15:30 - 16:00	Q & A (Antti Niemi - Qingdong Jiang)	
19:00 - 21:00	Dinner	



Thursday Jan. 16

Time	Name	Title
09:30 - 10:30	Yannis Semertzidis	Electric Dipole Moments in Storage Rings and Elsewhere
10:30 - 10:45	Coffee break	
10:45 - 11:45	Yannis Semertzidis	Basic Science in the Service of Humanity How to Choose Your Supervisor
11:45 - 13:00	Lunch	
13:00 - 14:00	Biao Huang	Shielding and Steering A Schrödinger's Cat With Cat-scar Enforced Discrete Time Crystals
14:00 - 14:15	Coffee break	
14:15 - 15:15	Biao Huang	Shielding and Steering A Schrödinger's Cat With Cat-scar Enforced Discrete Time Crystals
15:15 - 15:30	Coffee break	
15:30 - 16:30	Xiao-Bo Zhu	Superconducting Quantum Computing
16:30 - 16:45	Coffee break	
16:45 - 17:45	Xiao-Bo Zhu	Superconducting Quantum Computing
17:45 - 18:00	Coffee break	
18:00 - 18:45	Q & A (Yannis Semertzidis - Biao Huang - Xiao-Bo Zhu)	
19:00 - 21:00	Dinner	

Friday Jan. 17

Time	Name	Title
09:30 - 10:30	Martin Greiter	Theory of Eigenstate Thermalization
10:30 - 10:45	Coffee break	
10:45 - 11:45	Martin Greiter	Theory of Eigenstate Thermalization
11:45 - 13:00	Lunch	
13:00 - 14:00	Qingdong Jiang	Lecture 3: Quantum Atmospheric Effect and Its Detection
14:00 - 14:15	Coffee break	
14:15 - 15:15	Qingdong Jiang	Lecture 4: Cavity Quantum Materials — Band Structures, Interactions, and Topology
15:15 - 15:30	Coffee break	
15:30 - 16:00	Q & A (Martin Greiter - Qingdong Jiang)	
16:00 - 16:15	Closing Remark	
19:00 - 21:00	Banquet	

Sign in

Time: 9:00 am-18:00 am on January 5th.

Location: Sanya Conifer Resort Hotel lobby

If you do not sign in or receive materials on January 5th, please sign in at the gate of the conference venue on January 6th (Conference materials mainly include: Handbook, Meal vouchers, T-shirts, Souvenirs, Notebooks, etc.)