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 Sunday June 14, 2026
 

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Full day Arrivals &amp; Registration

18:30-21:30 Welcome Reception

 Monday June 15, 2026
 

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8:45-9:00	<b>Opening Ceremony</b>		
<b>Session I</b>	Chair:Hans Bacher	Australian National University	
9:00-9:35	<b>Fundamental quantum mechanics with ultracold atom</b>	Wolfgang Ketterle	Massachusetts Institute of Technology ..... 01
9:35-10:00	<b>Many-Body Chemical Reactions with Molecular Matter waves</b>	Cheng Chin	University of Chicago ..... 02
10:00-10:25	<b>Quantum Simulation of the fermionic Hubbard model</b>	Yu-Ao Chen	University of Science and Technology of China ..... 03
10:25-11:00	<b>Coffee Break</b>		
<b>Session II</b>	Chair:Gordon Drake	University of Windsor	
11:00-11:35	<b>Non-Gaussian statistics and universal scaling behavior across a phase transition</b>	David Clément	Université Paris-Saclay ..... 04
11:35-12:00	<b>Unified theory for localization physics in quasiperiodic lattices</b>	Xiongjun Liu	Peking University ..... 05
12:00-12:25	<b>TBD</b>	Hanns-Christoph Nägerl	University of Innsbruck ..... 06
12:25-14:00	<b>Buffet Lunch</b>		
<b>Session III</b>	Chair:Gabriele Ferrari	University of Trento	
14:00-14:35	<b>TBD</b>	James Thompson	University of Colorado ..... 07
14:35-15:10	<b>Single spin magnetic resonance by microwave photon counting</b>	Emmanuel Flurin	Université Paris-Saclay ..... 08
15:10-15:45	<b>Coffee Break</b>		
<b>Session IV</b>	Chair:Zong-chao Yan	University of New Brunswick	
15:45-16:20	<b>Forbidden transitions for fundamental physics</b>	Dmitry Budker	Helmholtz Institute Mainz, UC Berkeley ..... 09
16:20-16:55	<b>Precision tests of the standard model at low energies using stored exotic ions in penning traps</b>	Klaus Blaum	Max Planck Institute for Nuclear Physics ..... 10
16:55-19:00	<b>Poster Session</b>		
19:00-20:00	<b>Buffet Dinner</b>		

 Tuesday June 16, 2026
 

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<b>Session I</b>	Chair:Holger Mueller	University of California, Berkeley	
9:00-9:45	<b>Remembering Daniel Kleppner as a scientist, a teacher and a statesman of science</b>	Serge Haroche	L'École Normale Supérieure (ENS) ..... 11
9:45-10:10	<b>Quantum Sensing in Space for Fundamental Physics and Earth Observation</b>	Naceur Gaaloul	Leibniz University Hannover ..... 12
10:10-10:35	<b>Research progress of cold atom interferometer on China Space Station</b>	Xi Chen	Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences ..... 13
10:35-11:10	<b>Coffee Break</b>		
<b>Session II</b>	Chair:Naceur Gaaloul	Leibniz University Hannover	
11:10-11:35	<b>ACES preliminary results</b>	Luigi Cacciapuoti	European Space Agency ..... 14
11:35-12:00	<b>TBD</b>	Shougang Zhang	National Time Service Center of the Chinese Academy of Sciences ..... 15
12:00-12:25	<b>A two-stage cooling of quantum gases below 10 picokelvin in space</b>	Xuzong Chen	Peking University ..... 16

## Tuesday June 16, 2026

12:25-14:00	<b>Buffet Lunch</b>		
<b>Session III</b>	Chair:Ernst Rasel	Leibniz University Hannover	
14:00-14:35	<b>Quantum simulation, quantum learning, and quantum sensing with programmable atomic systems</b>	Peter Zoller	University of Innsbruck ----- 17
14:35-15:10	<b>Quantum Network: quantum communication, computation, and metrology</b>	Jianwei Pan	University of Science and Technology of China ----- 18
15:10-15:45	<b>Coffee Break</b>		
<b>Session IV</b>	Chair:Augusto Smerzi	European Laboratory for Non-Linear Spectroscopy	
15:45-16:20	<b>TBD</b>	Jun Ye	JILA, University of Colorado ----- 19
16:20-16:55	<b>Progress in nuclear laser spectroscopy of thorium-229</b>	Ekkehard Peik	Physikalisch-Technische Bundesanstalt (PTB) ----- 20
16:55-19:00	<b>Poster Session</b>		
19:00-22:00	<b>Conference Dinner</b>		

## Wednesday June 17, 2026

<b>Session I</b>	Chair:Xing-Can Yao	University of Science and Technology of China	
9:00-9:35	<b>Emergence of order in homogeneous Bose gases</b>	Zoran Hadzibabic	University of Cambridge ----- 21
9:35-10:00	<b>Spin nematic squeezing and three-outcome bell correlator</b>	Li You	Tsinghua University ----- 22
10:00-10:25	<b>In situ observation of excitations in a spin-orbit-coupled supersolid</b>	Leticia Tarruell	ICFO - The Institute of Photonic Sciences ----- 23
10:25-11:00	<b>Coffee Break</b>		
<b>Session II</b>	Chair:Jun Ye	JILA, University of Colorado	
11:00-12:25	<b>Panel Discussion</b>		
12:25-14:00	<b>Buffet Lunch</b>		
14:00-18:30	<b>Free Discussion &amp; Excursions</b>		
18:30-20:00	<b>Buffet Dinner</b>		

## Thursday June 18, 2026

<b>Session I</b>	Chair:Peng Xu	Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences	
9:00-9:35	<b>Entangling atomic qubits over short and long distances</b>	Mark Saffman	University of Wisconsin ----- 24
9:35-10:00	<b>TBD</b>	Giacomo Roati	CNR-INO, LENS ----- 25
10:00-10:25	<b>Aperiodic many-body quantum matter produced in an ultra-cold quantum degenerate plasma: Direct observation of fractional elementary charges</b>	Klaus Muller-Dethlefs	The University of Manchester ----- 26
10:25-11:00	<b>Coffee Break</b>		
<b>Session II</b>	Chair:Chaohong Lee	Shenzhen University	
11:00-11:35	<b>TBD</b>	Tobias J. Kippenberg	EPFL-Swiss Federal Institute of Technology Lausanne ----- 27
11:35-12:00	<b>"Quantum Spin Dynamics and its cutting-edge applications in quantum technologies"</b>	Xinhua Peng	University of Science and Technology of China ----- 28
12:00-12:25	<b>Sub-part-per-trillion test of the Standard Model with atomic hydrogen</b>	Randolf Pohl	Johannes Gutenberg University Mainz ----- 29

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 Thursday June 18, 2026
 

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12:25-14:00	<b>Buffet Lunch</b>		
<b>Session III</b>	Chair: Peter Hannaford	Swinburne University of Technology	
14:00-14:35	<b>Entangling atomic qubits over short and long distances</b>	Luming Duan	Tsinghua University ..... 30
14:35-15:10	<b>Velocity-enabled control in arrays of strontium atoms</b>	Johannes Zeiher	Ludwig Maximilians University Munchen ..... 31
15:10-15:45	<b>Coffee Break</b>	Chair: Ken Baldwin	Australian National University
<b>Session IV</b>			
15:45-16:20	<b>Kosuke Yoshioka, Rapid laser cooling of positronium towards precision spectroscopy of a purely leptonic atom</b>	Kosuke Yoshioka	University of Tokyo ..... 32
16:20-16:55	<b>Precision spectroscopy of the molecular hydrogen ions: present and future</b>	Stephan Schiller	Heinrich Heine University Düsseldorf ..... 33
16:55-19:00	<b>Poster Session</b>		
19:00-20:00	<b>Buffet Dinner</b>		
	<b>Public Lecture</b>	Chair: Xiaojun Liu	Liu Innovation Academy for Precision Measurement of Science and Technology, Chinese Academy of Sciences
20:00-21:30	<b>Laser in quantum physics</b>	Public Lecture (Serge Haroche)	Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences ..... 34

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 Friday June 19, 2026
 

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<b>Session I</b>	Chair: Xiwen Guan	Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences	
9:00-9:35	<b>Dimensional crossover and cold atomic gases</b>	Thierry Giamarchi	University of Geneva ..... 35
9:35-10:00	<b>Dimensional crossover and cold atomic gases</b>	Wenlan Chen	Tsinghua University ..... 36
10:00-10:25	<b>Collision-Induced Entanglement in Flying Atoms</b>	Jaewook Ahn	Korea Advanced Institute of Science and Technology ..... 37
10:25-11:00	<b>Coffee Break</b>	Chair: Jaewook Ahn	Korea Advanced Institute of Science and Technology
<b>Session II</b>			
11:00-11:35	<b>Probing Quantum Mechanics with Massive Nanoparticles</b>	Markus Arndt	University of Vienna ..... 38
11:35-12:15	<b>Structuring high-order harmonic generation with angular momentum: from fundamentals to applications</b>	IUPAP prize talk (Laura Rego Cabezas)	Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC) ..... 39
12:15-12:30	<b>Closing Ceremony</b>		
12:30-14:00	<b>Buffet Lunch</b>		
14:00-18:30	<b>Laboratory Tuors &amp; Departure</b>		
19:00-20:00	<b>Buffet Dinner</b>		

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 Saturday June 20, 2026
 

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Full day

Departure