

PROGRAM

Sunday, June 14, 2026

Full Day Arrivals & Registration

18:30-21:30 **Welcome Reception**

Monday, June 15, 2026

08:45-09:00 **Opening Ceremony**

Chair: Mingsheng Zhan Innovation Academy for Precision Measurement Science and Technology, CAS

Session I Chair: Hans Bachor Australian National University

09:00-09:35 **Fundamental quantum mechanics with ultracold atom** 1

Wolfgang Ketterle Massachusetts Institute of Technology

09:35-10:00 **Many-body chemical reactions with molecular matterwaves** 2

Cheng Chin University of Chicago

10:00-10:25 **Quantum simulation of the Fermionic Hubbard model** 3

Yu-Ao Chen University of Science and Technology of China

10:25-11:00 **Coffee Break**

Session II Chair: Gordon Drake University of Windsor

11:00-11:35 **Non-Gaussian statistics and universal scaling behavior across a phase transition** 4

David Clement Université Paris-Saclay

11:35-12:00 **Unified theory for localization physics in quasiperiodic lattices** 5

Xiongjun Liu Peking University

12:00-12:25 **Low-dimensional quantum gases correlations, excitations, and emergent statistics** 6

Hanns-Christoph Nägerl University of Innsbruck

12:25-14:00 **Buffet Lunch**

Session III Chair: Gabriele Ferrari University of Trento

14:00-14:35 **Photon-mediated interactions for quantum simulation and sensing** 7

James Thompson JILA, University of Colorado

14:35-15:10 **Single spin magnetic resonance by microwave photon counting** 8

Emmanuel Flurin Université Paris-Saclay

15:10-15:45 **Coffee Break**

Session IV Chair: Zong-Chao Yan University of New Brunswick

15:45-16:20 **Forbidden transitions for fundamental physics** 9

Dmitry Budker Helmholtz Institute Mainz, UC Berkeley

16:20-16:55 **Precision tests of the standard model at low energies using stored exotic ions in Penning traps** 10

Klaus Blaum Max Planck Institute for Nuclear Physics

16:55-19:00 **Poster Session I**

19:00-20:00 **Buffet Dinner**