ICAP2026

Poster Index

CONFERENCE SCHEDULE

ICAP2026
June14-19, 2026 Wuhan · China

	14th June	15th June	16th June	17th June	18th June	19th June	20th June
08:45-09:00	Arrivals & Registration	**Opening Ceremony** Chair: Mingsheng Zhan					Departure
		Chair: Hans Bachor	Chair: Holger Mueller	Chair: Xing-Can Yao	Chair: Peng Xu	Chair: Xiwen Guan	
09:00-09:35		**Wolfgang Ketterle**	**Serge Haroche**	**Zoran Hadzibabic**	**Mark Saffman**	**Thierry Giamarchi**	
09:35-09:45		**Cheng Chin**		**Li You**	**Giacomo Roati**	**Wenlan Chen**	
09:45-10:00			**Naceur Gaaloul**				
10:00-10:10		**Yu-Ao Chen**		**Leticia Tarruell**	**Klaus Muller-Dethlefs**	**Jaewook Ahn**	
10:10-10:25			**Xi Chen**				
10:25-10:35		**Coffee Break**		**Coffee Break**	**Coffee Break**	**Coffee Break**	
10:35-11:00			**Coffee Break**				
		Chair: Gordon Drake		Chair:	Chair: Chaohong Lee	Chair: Jaewook Ahn	
11:00-11:10		**David Clément**		**Panel Discussion Chair: Jun Ye**	**Tobias J. Kippenberg**	**Markus Arndt**	
			Chair: Naceur Gaaloul				
11:10-11:25			**Luigi Cacciapuoti**				
11:25-11:35							
11:35-12:00		**Xiongjun Liu**	**Shougang Zhang**		**Xinhua Peng**	**IUPAP prize talk (Laura Rego Cabezas)**	
12:00-12:15		**Hanns-Christoph Nägerl**	**Xuzong Chen**		**Randolf Pohl**		
12:15-12:25						**Closing Ceremony** Chair: Xinye Xu	
12:25-12:30							
12:30-14:00		**Buffet Lunch**	**Buffet Lunch**	**Buffet Lunch**	**Buffet Lunch**	**Buffet Lunch**	
		Chair: Gabriele Ferrari	Chair: Ernst Rasel		Chair: Peter Hannaford		
14:00-14:35		**James Thompson**	**Peter Zoller**	**Free Discussion & Excursions**	**Luming Duan**	**Laboratory Tuors & Departure**	
14:35-15:10		**Emmanuel Flurin**	**Jianwei Pan**		**Johannes Zeiher**		
15:10-15:45		**Coffee Break**	**Coffee Break**		**Coffee Break**		
		Chair: Zongchao Yan	Chair: Augusto Smerzi		Chair: Ken Baldwin		
15:45-16:20		**Dmitry Budker**	**Jun Ye**		**Kosuke Yoshioka**		
16:20-16:55		**Klaus Blaum**	**Ekkehard Peik**		**Stephan Schiller**		
16:55-18:30		**Poster Session I**	**Poster Session II**		**Poster Session II**		
18:30-19:00	Welcome Reception			**Buffet Dinner**			
19:00-20:00		**Buffet Dinner**	**Conference Dinner** Chair:Zhengtian Lu		**Buffet Dinner**	**Buffet Dinner**	
20:00-21:30					**Public Lecture (Serge Haroche)** Chair: Xiaojun Liu		
21:30-22:00							

Monday 15th June

Quantum Gases

Mon-001 **Analog-digital assembly of strongly correlated states in a fermionic quantum simulator**
Yann Kiefer — ETH Zürich

Mon-002 **A Nonequilibrium Equation of State for a Turbulent 2D Bose Gas**
Nikolai Maslov — University of Cambridge

Mon-003 **Violation of the Leggett-Garg inequality for dynamics of a Bose-Einstein condensate in a double-well potential**
Tsubasa Sakamoto — Chuo University

Mon-004 **Optical ponderomotive trap for ultracold neutral plasma and Rydberg atoms**
Sergey Saakyan — Joint Institute for High Temperatures of the Russian Academy of Sciences (JIHT RAS)

Mon-005 **Realization of fractional fermi seas**
Yi Zeng — University of Innsbruck

Mon-006 **Damping of the Higgs mode in a spin-1 XY model with long-range interactions and a quadratic Zeeman term**
Daiki Kawasaki — Kindai University

Mon-007 **Damping in open system theory of Bose-Einstein condensates**
Nils Krause — University of Otago

Mon-008 **Fermi-pressure-assisted cavity superradiance in a mesoscopic Fermi gas**
Ekaterina — Ecole Polytechnique Federale de Lausanne (EPFL)

Mon-009 **Ultracold atoms at dimensional crossover: universal phase diagram and quantum correlation properties**
Hepeng Yao — School of Electronics, Peking University

Mon-010 **Direct observation of 3D Anderson transition with ultracold atoms**
Ke Xie — Université Paris-Saclay

Mon-011 **Programmable Assembly of Ground State Fermionic Tweezer Array**
Jin Zhang — Max Planck Institute for Quantum Optics

Mon-012 **The three body contact of the unitary Fermi gas**
Carl Heintze — Heidelberg University

Mon-013 **Developing a Programmable Quantum Gas Microscope**
Sarah Waddington — Institute of Science and Technology Austria (ISTA)

Mon-014 **Site-resolved probing of the superfluid to Bose glass transition in an optical quasicrystal**
Yong-Guang Zheng — University of Cambridge

Mon-015 **Ultracold Bosons in Optical Quasicrystals**
Yong-Guang Zheng — University of Cambridge

Mon-016 **Emergent Elliptic Flow of Few Fermions: Explicitly Correlated Gaussian Study for the Dynamics of Strongly Interacting Few-Body Systems**
Lee Kai Yuen — The Chinese University of Hong Kong

Mon-017 **Non-Abelian dynamics in strongly interacting spinor Bose gases**
Lau Tsz Chun — The Chinese University of Hong Kong

Mon-018 **Towards the Fast Generation of BEC via EIT Cooling**
Yu-Te Tsai — National Taiwan University

Mon-019 **Quantum phases of strongly interacting dipolar molecules**
Thomas Pohl — Vienna University of Technology

Monday 15th June

Precision Measurements and Fundamental Tests

Mon-020 **Efficient Method for Eliminating Angular Dependence in Quantum Three-Body Calculations**
Anjan Sadhukhan — Yang Ming Chiao Tung University

Mon-021 **Nuclear Recoil Correction in Hydrogen-like Atoms**
Jakub — University of Warsaw

Mon-022 **The NL-eEDM research program: latest results and prospects**
Steven Hoekstra — University of Groningen and Nikhef

Mon-023 **Probing quantum mechanics with nanoparticle matter-wave interferometry**
Sebastian Pedalino — University of Vienna

Mon-024 **Bloch Oscillation Assisted Fountain-Mode Atom Interferometry**
Vishu Gupta — VLBAI, Leibniz University Hannover

Mon-025 **Observation of the electric Breit–Rabi effect**
Shoubo Wang — University of Science and Technology of China

Mon-026 **^{81}Kr analysis with an all-optical ATTA**
Jun-long Deng — University of Science and Technology of China

Mon-027 **Quantum logic spectroscopy of the hydrogen molecular ion**
Qianlong He — ETH Zurich

Mon-028 **Detection of Atmospheric ^{42}Ar at the 10^{-21} Level by Atom Trap Trace Analysis**
JiaWei Liang — Hefei National Laboratory

Mon-029 **The Mößbauer Revival: Probing BSM Physics with Nuclear Precision**
Chiara Brandenstein — Stanford University

Mon-030 **Production and properties of the ASACUSA antihydrogen beam**
Ross Sheldon — Marietta Blau Institute for Particle Physics

Mon-031 **Detection of atmospheric 42Ar at the 10^(-21) level by atom counting**
Zhao-Feng Wan — University of Science and Technology of China

Mon-032 **Towards eEDM measurements using ultracold trapped YbF molecules in an optical lattice**
Shimpei Endo — University of Electro-Communications

Mon-033 **Generation of metastable krypton using a 124-nm laser**
Qiaosong Lin — University of Science and Technology of China

Mon-034 **Measurements of positronium compound binding energies**
Alina Weiser — Austrian Academy of Sciences

Mon-035 **Characterization of Chip-scale packaged detector for optically pumped magnetometer**
Jihyeong Ju — Chonnam National University

Mon-036 **Probing short range interactions with whispering gallery states of neutrons and hydrogen atoms**
Katharina Schreiner — Marietta Blau Institute

Mon-037 **In-trap Collimation for dual-BEC Interferometry in Space**
Timothé Estrampes — Leibniz Universität Hannover

Mon-038 **ACME III: Progress towards an improved electron EDM measurement**
Peiran Hu — University of Chicago

Mon-039 **ZOMBIES: Towards measuring the parity-violating nuclear anapole moment of 137Ba in BaF molecules**
Robert Xi — University of Chicago

Mon-040 **CeNTREX : A Search for Time Reversal Symmetry Violation with 205TlF molecules**
pengyu zhou — columbia university

Mon-041 **Toward an improved bound on the electron electric dipole moment with ThF+**
Tuan Anh Nguyen — JILA, University of Colorado Boulder

Mon-042 **An improved limit on 171Yb electric dipole moment**
S. Z. Wang — University of Science and Technology of China

Mon-043 **Wide-Field Aberration Correction via Multi-Plate Representation of Imaging Lenses**
Wang — Fudan University

Mon-044 **Testing Continuous Spontaneous Localization Models with Atom Interferometry**
Huaiyu Zhu — Huazhong University of Science and Technology

Monday 15th June

Atomic Clocks and Interferometers

Mon-045 **Nuclear optical clocks**
Aleksei Taichenachev — Institute of Laser Physics SB RAS

Mon-046 **T^-3-shift in a short-baseline atomic interferometer-gravimeter**
Dmitrii Kapusta — Institute of Laser Physics SB RAS

Mon-047 **Fundamental Physics with an Ultra Stable and Transportable Optical Lattice Atomic Clock**
Thomas Catanach — University of Birmingham

Mon-048 **Magnetic trapping and non-destructive microwave detection of cold atoms on an atom chip**
Tengfei Xia — Paris observatory

Mon-049 **In-vacuum cavity for lattice enhancement and non-destructive detection for a transportable optical lattice clock**
Pontus Palomurto — University of Birmingham

Mon-050 **Towards transportable optical clock with low systematic frequency shift based on neutral Tm**
Nikolai Kolachevskii — P.N. Lebedev Physical Institute of the Russian Academy of Sciences

Mon-051 **Multiparameter estimation with an array of entangled atomic sensors**
Lex Joosten — Universität Basel

Mon-052 **Quantum Optimal Control of Polychromatic Matter-Light Pulses**
Simone Ausilio — University of Birmingham

Mon-053 **Quantum Hybridized Accelerometer for Inertial Navigation**
Mouine Abidi — Leibniz Universität Hannover

Mon-054 **Purely optical macroscopic trap for cooling and trapping of neutral atoms**
Oleg — Institute of Laser Physics SB RAS

Mon-055 **Precise Control of Launch Velocity for Cold Atomic Cloud Based on 3D Vector Moving Optical Molasses**
Yao Li — Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Mon-056 **Blackbody Radiation Stark Shift in Terahertz Clock Transitions in doubly ionized Lanthanum**
Jyoti — Peking University

Mon-057 **Nuclear spin quenching on the clock transition in 173Yb+ ion**
Jialiang Yu — Physikalisch-Technische Bundesanstalt

Mon-058 **Towards a chip-scale blue frequency standard using warm atomic vapor**
Sumit Achar — Indian Institute of Technology

Mon-059 **Exploring the Effects of Dynamic Quadrupole Polarizabilities and Electric Field Gradients on Magic Wavelength Calculations for Clock Transitions in Singly charged Ca, Sr and Ba**
Mandeep Kaur — Chandigarh University

Mon-060 **Precision measurement of the clock state natural lifetime in 171Yb optical lattice clocks**
Xuan Liu — East China Normal University

Mon-061 **Nuclear laser spectroscopy of 229Th doped in CaF2 using a pulsed laser**
Takahiro Hiraki — Okayama University

Mon-062 **High-contrast Raman interferometry with up to 34 photon-recoil momentum transfer**
Yuxiang Zhao — Fudan University

Mon-063 **Constraint on an Exotic Parity-Odd Spin- and Velocity-Dependent Interaction with Atom Interferometer**
Shu Yu-Biao — Huazhong University of Science and Technology

Mon-064 **Objectively evaluate uncertainty of physical effect of atomic clock by noise statistical correlation method**
Liu Zhiyi — Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Mon-065 **Determining the incident direction of Raman laser in an atom interferometer**
Shiling Luo — Huazhong University of Science and Technology

Monday 15th June

Cold Molecules

Mon-066 **Sub-Doppler Cooling and Optical Trapping of BaF Molecules**
Zixuan Zeng Zhejiang University

Mon-067 **Direct Observation of Scattering Oscillations in Controlled Cold Chemi-ionization Collisions between Kr* and Rb**
Ruifan Wu University of Science and Technology of China

Mon-068 **Ultracold strongly dipolar alkali-metal--silver molecules**
Michal Tomza University of Warsaw

Mon-069 **2D Laser-cooling of an Asymmetric Top Molecule**
Grace Li Harvard Univeristy

Mon-070 **Laser Cooling and Trapping of Helium Dimers**
Bingcheng Zeng Vrije Universiteit Amsterdam

Mon-071 **Observations of half-quantum vortices and symmetry breaking in molecular Bose–Einstein condensates**
Holly Middleton-Spencer University Of Birmingham

Mon-072 **Controlled symmetry breaking of the Fermi surface in ultracold polar molecules**
Christine Frank Max Planck Institute of Quantum Optics

Mon-073 **Training Neural Nets as Quantum Many-Body Ground States**
Leonard Paul Bleiziffer Institute of Theoretical Physics, Chinese Academy of Sciences

Mon-074 **Quantum-logic spectroscopy of dipole-forbidden vibrational and rotational transitions in single molecular nitrogen ions**
Richard Karl University of Basel

Mon-075 **Magneto-optical trapping of aluminum monofluoride**
Jionghao Cai Fritz-Haber-Institut der Max-Planck-Gesellschaft

Quantum Optics and Cavity QED

Mon-076 **Biphoton generation and manipulation with nonlinear metasurfaces**
Jinyong Ma Shenzhen University

Mon-077 **Cavity-mediated spin interactions and coherence protection for solid-state spin ensemble**
Chengyi Luo Caltech

Mon-078 **Tunable Competition Between Localization Mechanisms in Disordered Cavity-QED Lattices**
Miao Cai University of Innsbruck

Mon-079 **Collective Effects in Dense Ensembles of Rubidium Atoms**
Poitrinal Martin Institut d' Optique, laboratoire Charles Fabry

Mon-080 **Experimental Research of Cavity QED with Neutral Atoms in a Fiber Microcavity**
Jian Wang University of Science and Technology of China

Mon-081 **Towards Cavity-Assisted Ion-Photon Entanglement with Barium Ions in a Linear Paul trap**
Jesús Gabriel Riestra Castillo Okinawa Institute of Science and Technology

Mon-082 **Quantum error correction with photonic graph states**
Leonardo Ruscio Max Plank Institute of Quantum Optics

Mon-083 **Quantum metasurfaces as probes of vacuum particle content**
Germain Tobar Stockholm University

Mon-084 **Interplay between nonreciprocity and geometric frustration: chiral frustrated self-organization of BECs in an optical cavity**
Guitao Lyu Duke Kunshan University

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Qubits and Quantum Computation

Mon-085 **Single Atom-Photon Interfaces for Quantum Networks**
Zifang Xu — National University of Singapore

Mon-086 **Quantum memristor encoded in an ion as a candidate for neuromorphic computing systems**
Ksenia Khabarova — P.N. Lebedev Physical Institute of RAS

Mon-087 **Design of a Large-Scale Single-Atom Array Apparatus with Continuous Operation**
Yuki Toril Chew — Institut d'Optique

Mon-088 **Tailoring the All-To-All Interaction of RF-Controlled Trapped Ions**
Christof Wunderlich — University Siegen

Mon-089 **High-fidelity microwave-driven quantum computing with trapped ions**
Mario Gely — Oxford University

Mon-090 **Progress Towards Scalable Quantum Simulation and Computing with 137Ba+ Ions**
Zhou Zichun — Fudan University

Mon-091 **Trapping over 10,000 individual atoms in a tweezer array by a single metasurface**
Wenlan Chen — Tsinghua University

Mon-092 **Trapped Ions Meet Optical Tweezers: A New Route to Ion Control with Tightly Focused Vector Fields**
Jin-Ming Cui — University of Science and Technology of China

Mon-093 **Cavity-Enhanced Modular Ion Traps for Optically-Interconnected Networks**
Arjun David Rao — University of Oxford

Mon-094 **Phonon Manipulation via Optical Tweezers: Mode Mixing and Heat Redistribution in Trapped Ions**
Chen Yan — University of Science and Technology of China

Mon-095 **Dual-Type, Dual-Species Atom Arrays and Inter-Species Rydberg Interactions**
Tao Alex Zheng — Paul Sherrer Institute

Mon-096 **Entangling gates for embedded qubits in trapped-ion qudits**
Kamenskikh Pavel — Lebedev Physical Institute

Mon-097 **Measurement of dipole-trap depth using Rabi-like parametric resonance without heating**
Gleb Struchalin — Lomonosov Moscow State University

Mon-098 **Identification and modeling of correlated errors in ^{87}Rb neutral atom analog quantum computing**
JuYoung Park — KAIST

Mon-099 **Photoionization-enabled controlled cancellation of stray electric field in a Rydberg atom experiment**
Haonan Lin — University of Science and Technology of China

Mon-100 **The influence of laser phase noise on the fidelity of the two-qubit MS gate in a trapped-ion quantum computer**
Nikita Semenin — Lebedev Physical Institute of the Russian Academy of Sciences

Mon-101 **AI-Enabled Decoding of Qubit Loss for Quantum Error-Correcting Codes**
Yuqing Wang — Tsinghua University

Ultrafast and Intense Field Science

Mon-102 **Superradiant parametric Mössbauer radiation generated by the XFEL electron beam**
Ze-an Peng — Max Planck Institute for Nuclear Physics

Mon-103 **Ultrafast Proton and Charge Transfer between HCl molecules during Coulomb Explosion**
Xinning Zhao — Changchun University of Technology

Mon-104 **Reconstruction of a pulse shape for laser intensities above 10^{16} W/cm^2 using attoclock geometry**
Igor Ivanov — Institute for Basic Science

Mon-105 **Decoding Molecular Geometries in Coulomb Explosion Imaging via Physics-Informed Deep Neural Network**
Xingyu Guo — University of Science and Technology of China

Mon-106 **Composite picosecond control of atomic dipole with 99% efficiency**
Li Yiming — Fudan Univeristy

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Quantum Simulation

Mon-107 **Developing A Large-Scale Trapped-Ion Quantum Processor with Controllable In-Situ Coherent and Incoherent Controls**
Jingwen Zhu University of Waterloo

Mon-108 **Optical tweezer arrays of erbium atoms for quantum simulation**
Daniel Schneider Grün University of Innsbruck

Mon-109 **Hilbert space fragmentation in a driven-dephasing Rydberg atom array**
Tianyi Yan the University of Nottingham

Mon-110 **Spin-resolved single-site imaging of homogeneous Fermi Hubbard gases**
Xing-Can Yao University of Science and Technology of China

Mon-111 **Non-Hermitian Quantum Simulator with trapped ions**
Liu Teng School of Physics and Astronomy, Sun Yat-sen University

Mon-112 **Cavity tweezers arrays for quantum simulation and multi-parameter quantum metrology**
Jakob Reichel LKB, ENS/SU/CNRS/CdF

Mon-113 **Precision State Assembly and Quantum Simulation with Fermions in Optical Lattices**
Philipp Preiss Max Planck Institute of Quantum Optics

Mon-114 **Preparation of Fractional Quantum Hall States on Quantum Computers**
Jian Cui Beihang University

Mon-115 **Universal scaling of fluctuations and correlations across the superfluid transition**
Chalopin CNRS - LCF

Mon-116 **Domain wall dynamics in a ferromagntic superfluid**
Gabriele Ferrari Univesity of Trento

Mon-117 **Programmable Quantum Simulator with 2D Ion Crystals**
Matthias Bock University of Innsbruck

Mon-118 **Observation of Near-Critical Kibble-Zurek Scaling in Rydberg Atom Arrays**
Angrui Du Tsinghua University

Mon-119 **Interaction-induced topological quantum states**
Yongguan Ke Shenzhen University

Mon-120 **Experimental Studies of Liouvillian Critical Dynamics and Skin Effect with Trapped Ions**
Yin Hongsen Sun Yat-sen University School of Physics and Astronomy

Mon-121 **Observation of a tripartite quantum phase for coexisting extended, localized, and critical states**
Zhongshu Hu Peking University International Center for Quantum Materials

Mon-122 **Nonlocal Physics in Quantum Systems with Long-Range Coupling**
Kaiye Shi Peking University

Mon-123 **A Dual-species Quantum Gas Microscope**
Haoran Zhang University of Science and Technology of China

Mon-124 **Probing pairing gap in 3D Fermi-Hubbard systems via van Hove singularity in RF spectroscopy**
Chuping Li University of science and technology of China

Ultrafast and Intense Field Science

Mon-125 **Electronic Structure Calculations for the Superheavy Elements Livermorium and Tennessine and Their Ions**
Garry Kin Vong UNSW Sydney

Mon-126 **Biomagnetic phantom for validating NV-diamond based wide-field magnetic field sensors**
Mykhailo Flaks JGU Mainz

Mon-127 **Plasma Modeling of Laser-Produced Cd Plasma Using Collisional-Radiative Diagnostics**
Nitish Ghosh Indian Institute of Technology Roorkee

Mon-128 **A Novel Electron Temperature Measurement Method for Cold Atom Electron Source**
Huang Haoyu University of Science and Technology of China

Mon-129 **Generation and Control of Electron Pulse Trains via Stark-Wavepackets Dynamics in a Cold Atom Electron Source**
Jianing Sun University of Science and Technology of China

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Chun Kit Wong — Institute for Quantum Optics and Quantum Information

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Nicolas Williams — University of Washington

Tue-003 **Two-mode collapse and revival of quantum coherent state in a tilted optical lattice**
Jimmy Lai — School of Electronics, Peking University

Tue-004 **Two atoms with strong light-induced dipolar interactions**
Hanzhen Lin — MIT

Tue-005 **2PI strong coupling approach to out of equilibrium dynamics of the clean and disordered Bose Hubbard model**
Malcolm Kennett — Simon Fraser University

Tue-006 **Fermion-Mediated Interactions and Induced Bosonic Binding in a Cs-Li Bose-Fermi Mixture**
Geyue Cai — University of Chicago

Tue-007 **Ultradilute quasi-2D Bose-Bose mixtures**
Ivan Poparić — University of Split and Departament de Fisica, Universitat Politecnica de Catalunya

Tue-008 **Exceptionally Slow Relaxation from Micro-canonical to Canonical Ensembles in Quasi-one-dimensional Quantum Gases**
Huaichuan Wang — Tsinghua University

Tue-009 **Condensation Dynamics in a Spin-Imbalanced Ultracold Fermi Gas Following an Interaction Quench**
Hyunsung Cho — Seoul National University

Tue-010 **Imaging Phase Fluctuation in a Coherently Coupled Bose Mixture**
Feiyang Wang — University Of Cambridge

Tue-011 **Time-tronics: from temporal printed circuit board to quantum computer**
Peter Hannaford — Swinburne University of Technology

Tue-012 **Stability of a 23Na-6Li-6Li Bose-Fermi-Fermi mixtures**
Wan Zo — Seoul National University

Tue-013 **Species-selective optical control of ultracold Rb–Yb mixtures near the Rb tune-out wavelength**
Junhwan Kwon — Seoul National University

Tue-014 **Loss dynamics in a quantum gas driven by a microwave field near molecular resonances**
Rémy Vatré — LPL / USPN

Tue-015 **Protons Move Faster than Neutrons in the Neutron Skins of Neutron-Rich Nuclei**
Bao-Jun Cai — Fudan University

Tue-016 **Advancing Cold Atomic Technology for Space Missions**
Shuyu Zhou — Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Tue-017 **Toward a High-flux Double-species Atom Source for Large Number NaRb Mixtures and Molecules**
zuji zhang — The Chinese University of Hong Kong

Tue-018 **Observation of modulation-induced Feshbach resonance**
Yuqi Liu — Tsinghua University

Tue-019 **Three-body interactions with a high-resolution ion microscope**
Óscar Andrey Herrera — University of Stuttgart

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Zhao Haojie — Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Tue-021 **Probing nuclear charge radii and QED with ultracold helium**
Kees Steinebach — Vrije Universiteit Amsterdam, the Netherlands

Tue-022 **Multi-Dressed-State Engineered Rydberg Electrometry**
Yuhan Yan — Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Tue-023 **Relativistic coupled-cluster calculations for the ground state electronic structure of XH+ (X : Cd, Hg and Yb) molecular ions**
Ankush Thakur — Indian Institute of Technology Roorkee

Tue-024 **Parity Nonconservation in Rb, Sr+, and Hydrogen due to Low-Mass Vector Boson Exchange**
Garry Kin Vong — UNSW Sydney

Tue-025 **Characterization of the phase noise in a cavity-enhanced frequency doubler**
Meichen Yan — University of Science and Technology of China

Tue-026 **Sensitive atomic accelerometers leveraging efficient quantum gas sources**
Mingjie Xin — Nanyang Technological University

Tue-027 **Precision Spectroscopy and Nuclear Structure Information of 3,4He and 6,7Li+**
Xiao-Qiu Qi — Zhejiang Sci-Tech University

Tue-028 **Noise Analysis of an Atom Gravity Gradiometer Based on Elliptical Fringes**
Wenxin Geng — Zhejiang University

Tue-029 **Transition-edge-sensor observations of E1, E2, and M3 x-ray transitions in Zn-like, Cu-like, and Ni-like bismuth at the NIST EBIT**
Chowdhury Abrar Faiyaz — Clemson University

Tue-030 **Cold-atom quantum sensing via Bayesian quantum estimation**
Chengyin Han — Shenzhen University

Tue-031 **Ultralight Scalar Dark Matter Detection with Long-Baseline Atom Interferometers**
Wei Zhao — Shandong University of Aeronautics

Tue-032 **Cold-atom comagnetometry via optical control of spin states**
Zhang Jielin — University of science and technology of China

Tue-033 **Quantum trajectory of a spin oscillator, continuous retrodiction beyond the Heisenberg uncertainty relation**
Peiying Li — Shanxi University

Tue-034 **Real-Time Detection of Tidally Induced Gravity Potential Changes**
Kilian Stahl — Physikalisch Technische Bundesanstalt

Tue-035 **Development of Shanghai Penning Trap for Precision Measurements**
Bingsheng Tu — Fudan University

Tue-036 **MCDHF Calculations of Isotope shifts for B II Using Perturbation Theory and Finite-Field Method**
Haoran Lin — Fudan University

Tue-037 **Highly Charged Ion Spectroscopic Determination of Yb-Lu Nuclear Charge Radii Differences**
Hunter Staiger — Clemson University

Tue-038 **Demonstration of Two-Dimensional Laser Cooling of Positronium and Prospects for Three-Dimensional Cooling**
Naoki Miayamoto — The University of Tokyo

Tue-039 **Towards Collinear Laser Spectroscopy of Radioactive Molecules Utilizing In-trap Produced Molecular Ion Beam**
Wencong Mei — Peking University

Tue-040 **Scalable Architecture for Dark Photon Searches: Superconducting-Qubit Proof of Principle**
Runqi Kang — University of Science and Technology of China

Tue-041 **GRASPG – Toward High-Precision Atomic Data with Reduced Computation**
Ran Si — Fudan University

Tue-042 **Long-lived metastable states in the 4f^{13}5d6s configuration of Yb+**
Zeger Ackerman — University of Amsterdam

Tue-043 **Realization of continuous superradiant lasing on a narrow optical transition**
Ananya Sitaram — University of Amsterdam

Tuesday 16th June

Atomic Clocks and Interferometers

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Binghong Yu — Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Tue-045 **Toward a High-Data-Rate Single-Zone 87Rb Atom Interferometer**
Doo Young Kim — Chonnam National University

Tue-046 **Design and Simulation of a Continuous Atomic Beam Source for Inertial Quantum Sensing Applications**
Minjae Gwak — Chonnam National University

Tue-047 **Atom and grating chips for atomic interferometry**
Daria Bykova — HSE University

Tue-048 **Extending Ramsey time of cold-atom CPT clock with vertically separated interrogation**
Zhi Tan — Shenzhen University

Tue-049 **Precision Spectroscopy via Symmetry-Protected Destructive Many-Body Interferometry**
Sijie Chen — Sun Yat-sen University

Tue-050 **Spectral Hole Burning in Eu:YSO for Ultrastable Laser Frequency Reference and Low-Frequency Acceleration Sensing**
Yue Yuan — Laboratoire Temps Espace (LNE-OP) Observatoire de Paris, Université PSL, Sorbonne Université, Université de Lille, LNE, CNRS

Tue-051 **Towards cold atomic sensors with millimeter resolution**
Kuan Lee — National Taiwan University

Tue-052 **A Strontium Optical Lattice Clock for the Synchronisation of Radar Systems**
Jordan Wayland — University of Birmingham

Tue-053 **Realistic Simulator of Gravitational Wave and Dark Matter Detection in long-baseline Atom Interferometry**
Michael Werner — Leibniz University Hannover

Tue-054 **Quantum engineering optical clocks based on trapped ions**
Piet O. Schmidt — PTB Braunschweig and LUH Hannover

Tue-055 **Diffraction phase-free Bragg atom interferometry**
Victor Jose Martinez Lahuerta — Leibniz University Hannover

Tue-056 **The Effect Due to Doppler Detuning of Stimulated Raman Transitions in Marine Atom Gravimeter under High Dynamic Conditions**
WushuangWang — Huazhong University of Science and Technology

Tue-057 **Towards the Fast Generation of BEC via EIT Cooling**
Yu-Te Tsai — National Taiwan University

Tue-058 **Towards a quantum network of entangled optical atomic clocks operating at the lifetime limit**
Shuying Chen — University of Oxford

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Yang Yang — JILA, University of Colorado

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