

## Ions

- 1 **Rianne Lous**, Eindhoven University of Technology  
*Sensing interactions in atomic quantum systems*
- 2 **Meirav Pinkas**, Weizmann Institute of Science  
*Observation of trap-assisted atom-ion bound states formation*

## Light Induced Interaction

- 3 **Thorsten Ackemann**, University of Strathclyde  
*Long-range interactions in a quantum gas mediated by diffracted light: A path for an experimental realization of the quantum Hamiltonian mean field model*
- 4 **Damien Bloch**, IOGS  
*A new experiment to study subradiance in ordered arrays of Dysprosium*
- 5 **Anna Bychek**, Institute for Theoretical Physics, University of Innsbruck  
*Superradiant lasing in inhomogeneously broadened ensembles*
- 6 **Nicolò Defenu**, ETH Zurich  
*Fractal Structures in higher-order Time Crystal*
- 7 **Uros Delic**, University of Vienna  
*Light-induced dipole-dipole interaction between optically levitated nanoparticles*
- 8 **Mehedi Hasan**, University of Cambridge  
*Negative Temperature in an Optical Triangular Lattice*
- 9 **Ivor Kresic**, Vienna University of Technology (TU Wien)  
*Generating atomic Dicke squeezed states by transverse self-organization in a cavity*
- 10 **Robert Löw**, University of Stuttgart  
*Quantum optics with hot atomic vapours*
- 11 **Natalia Masalaeva**, Institute for Theoretical Physics, University of Innsbruck  
*Shaping the interatomic interactions in a multimode cavity: from non-rigid supersolid to droplets*
- 12 **Laurin Ostermann**, Institute for Theoretical Physics, University of Innsbruck  
*Cavity Sub- and Superradiance Enhanced Ramsey Spectroscopy*
- 13 **Marvin Proske**, University of Mainz  
*Light-induced correlations in cold dysprosium atoms*
- 14 **Felix Tebbenjohanns**, Humboldt University Berlin  
*Superradiant burst of light from macroscopically separated atoms*
- 15 **Ishan Varma**, Johannes Gutenberg University, Mainz  
*Light induced interactions in ultracold Dysprosium atoms*

## Magnetic atoms

- 16 **Gregor Anich**, University Innsbruck  
*The NewLand Experiment: A new Dysprosium Apparatus for Dipolar Physics*
- 17 **Russell Bisset**, University of Innsbruck  
*Alternating-domain supersolids in binary dipolar condensates*
- 18 **Thomas Bland**, University of Innsbruck  
*Supersolids in binary dipolar gases*
- 19 **Piotr Deuar**, Institute of Physics, Polish Academy of Sciences  
*Spin distillation cooling of dipolar gases*
- 20 **Lauritz Klaus**, University of Innsbruck  
*Creation of Vortices in a dipolar BEC (presenters: Casotti + Klaus)*
- 21 **Ralf Klemt**, 5th Institute of Physics, University of Stuttgart  
*A short-wavelength dipolar quantum gas microscope for Dysprosium*
- 22 **Milan Krstajic**, Department of Physics, University of Oxford  
*Accurate determination of the three-body loss coefficient in Er-166*
- 23 **Gabriele Natale**, University of Innsbruck  
*Many-body quantum phases of dipolar erbium atoms*
- 24 **Elena Poli**, University of Innsbruck  
*Two dimensional supersolidity in dipolar quantum gases*
- 25 **Juan Sanchez-Baena**, Center for Complex Quantum Systems, Aarhus University  
*Heating a quantum dipolar fluid into a solid*
- 26 **Youssef Trifa**, ENS de Lyon

*Entangled states generation with dipolar spin Hamiltonians*

**Molecules**

- 27 **Charly Beulenkamp**, University of Innsbruck  
*Mixing potassium and cesium in various spin combinations*
- 28 **Camilo Cantillano**, University of Innsbruck  
tba
- 29 **Deborah Capecchi**, University of Innsbruck  
*Toward dipolar ultracold RbCs molecules: Mixing of atomic species in external confinements*
- 30 **Zekai Chen**, University of Innsbruck  
tba
- 31 **Arthur Christianen**, Max Planck Institute of Quantum Optics  
*From a polaron into a cluster: The fate of an impurity in a BEC*
- 32 **Arpita Das**, Institut für Experimentalphysik, Universität Innsbruck  
*Spectroscopic analysis of the states and transitions involved for STIRAP in  $87\text{Rb}133\text{Cs}$ : present status*
- 33 **Kai Dieckmann**, Centre for Quantum Technologies, National University of Singapore  
*Coherent transfer to the dipolar ground state of LiK molecules*
- 34 **Daniel Gonzalez-Cuadra**, University of Innsbruck, IQOQI  
*Frustration-induced topological phases in dipolar quantum matter*
- 35 **Raphael Holzinger**, Institute for Theoretical Physics Innsbruck  
*Cooperative Molecular Quantum Emitter Arrays*
- 36 **Florian Jung**, Max-Planck-Institut für Quantenoptik  
*Electric-field-controlled dipolar collisions between trapped polyatomic molecules*
- 37 **Mikhail Maslov**, Institute of Science and Technology Austria (ISTA)  
*Impurity with a resonance in the vicinity of the Fermi energy*
- 38 **Andreas Schindewolf**, Max Planck Institute of Quantum optics (MPQ)  
*Evaporation of microwave-shielded polar molecules to quantum degeneracy*
- 39 **Klaudia Zaremba-Kopczyk**, University of Warsaw  
*Ultracold mixtures of Cr and Li atoms: theoretical prospects for controlled atomic collisions, LiCr molecule formation and molecular precision measurements*

**Rydberg atoms**

- 40 **Wojciech Adamczyk**, ETH Zurich  
*Towards non-demolition readout of Calcium cRy states*
- 41 **Giacomo Cappellini**, CNR-INO  
*A new programmable quantum simulator with two-electron Rydberg atoms in optical tweezer arrays*
- 42 **Hagai Edri**, Institute for Quantum Optics and Quantum Information, Innsbruck  
*Quantum simulation with Rydberg states of Erbium atoms*
- 43 **Katja Gosar**, Jožef Stefan Institute  
*EIT-based detection of Rydberg atoms for quantum simulation with cesium atomic ensembles*
- 44 **Alessio Lerose**, University of Geneva  
*Discrete time-crystalline response stabilized by domain-wall confinement*
- 45 **Matteo Magoni**, University of Tübingen  
*Phonon dressing of a facilitated one-dimensional Rydberg lattice gas*
- 46 **Vasiliy Makhlov**, ICFO-The Institute of Photonic Sciences  
*Atom number enhancement by shielding atoms from losses in magneto-optical traps of strontium*
- 47 **Michael Schuler**, Institut für Theoretische Physik, Universität Innsbruck  
tba
- 48 **Wenchao Xu**, ETH Zurich  
*Fast Preparation and Detection of a Rydberg Qubit using Atomic Ensembles*
- 49 **Fan Yang**, Aarhus University  
*Creating individually tunable magnetic flux via multicolor Rydberg dressing*