



EGAS 55

Posters:
Wednesday June 19th

- PW 1 Elahe Abdiha, *Enantiomer-specific control of quantum state population of chiral molecules*
- PW 2 Husain Ahmed, *Interferometry with qudits encoded in nuclear spins in a $SU(N \leq 10)$ Fermi gas*
- PW 3 Juan Carlos Angulo, *The confined helium atom: An information-theoretic approach*
- PW 4 Ivan Ashkarin, *Few-body Förster resonances in Rydberg atoms for quantum gate protocols*
- PW 5 Quentin Beaufiles, *CARIOQA: a pathfinder for space atom interferometry*
- PW 6 Matteo Bergonzoni, *Robust molecule quantum gates*
- PW 7 Joaquín Berrocal, *A cryogenic open-ring Penning trap for laser-based mass spectroscopy*
- PW 8 Christophe Blondel, *The quantum offset of velocity imaging-based electron spectrometry and the electron affinity of As*
- PW 9 Peter Alexander Bouvrie, *Single-particle excitation spectrum of interacting Fermi gases at the fundamental discrete quantum level*
- PW 10 Natalia Bruno, *A photon-atom interface at telecom wavelengths*
- PW 11 Rachel Cannon, *Optimisation of a Compact, High-Flux Grating Magneto-Optical Trap (gMOT) Source for Improved Atom Trapping*
- PW 12 Marin Dujic, *Simultaneous dispersive interaction of multiple frequency comb lines with a cold atom cloud*
- PW 13 Matthew Eiles, *Phenomenology of a Rydberg impurity in an ideal Bose Einstein condensate*
- PW 14 Juan Manuel García-Garrido, *Rovibrational dynamics of Rb_2 in different laser pulses*
- PW 15 Joel Gomes Baptista, *Implementation of optimal control methods and top-hat beam for Bragg transition gravi-gradiometer.*
- PW 16 Gleb Gribakin, *Similarity of the near-threshold cross sections for positronium formation and photoionization in polyatomic molecules*
- PW 17 Piotr T. Grochowski, *Quantum control of continuous systems via nonharmonic potential modulation*
- PW 18 Marvin Held, *Kinetics of stepwise hydrogen adsorption by size-selected nickel cluster anions under cryo conditions*
- PW 19 Meagan Hough, *Optimisation of Pulse Shapes for Atomic Quantum Memories*

- PW 20 Audric Husson, *Stopping power of laser-cooled ion clouds: Application to macromolecule detection*
- PW 21 Asar Jaradat, *The PI-LIST: High-Resolution Crossed-Beams Laser Spectroscopy inside the ISOLDE Laser Ion Source. Unraveling hyperfine structures of Actinides.*
- PW 22 Marius Romuald Kamsap, *Method for exact gravity compensation in a linear horizontal macroscopic Paul trap*
- PW 23 Charbel Karam, *Two-photon optical shielding of collisions between ultracold polar molecules*
- PW 24 Silvan Koch, *Towards Non-demolition Readout of Circular Rydberg States in Calcium*
- PW 25 Egor Kovlakov, *Towards Li-Yb⁺ Feshbach resonance*
- PW 26 Matthias Krauss, *Analyzing Crosstalk Using Optimal Control Methods*
- PW 27 Kathrin Kromer, *Mass determinations of Pb-208 and U-238 and observation of a metastable electronic state*
- PW 28 Tomas Lamich, *Towards tuneable “coupling efficiency” of a single atom using a pump-probe scheme*
- PW 29 Artemis Linaraki, *Cavity enhanced chiral optical rotation*
- PW 30 David Mellado-Alcedo, *Ultralong-range Cs-RbCs Rydberg molecule: non-adiabaticity of dipole moments*
- PW 31 Milagros F. Morcillo-Arencia, *Interacting particles system inside a conducting cavity*
- PW 32 Jesús Moreno, *Coherent control of Nitrogen-Vacancy colour defects in diamond*
- PW 32 Arturs Mozers, *The impact of RF amplitude on magneto-optical signals in atomic Cs with linearly polarized excitation*
- PW 34 Ludwig Müller, *Exciting Ytterbium Rydberg Atoms by the Evanescent Field of a Nano-Fiber*
- PW 35 Lorenzo Oghittu, *Confinement induced resonances in alkali – alkaline earth atom mixtures*
- PW 36 Hélène Perrin, *Observation of a microwave Feshbach resonance in sodium*
- PW 37 Maxime Pesche, *Towards the nano-g with a cold atom absolute gravimeter*
- PW 38 Leon Petersson, *Relativistic calculations of electron–parent ion entanglement using the KRAKEN protocol*

- PM 39 Mariusz Piwinski, *Ionization cross-section measurements in the quadrupole ion trap*
- PW 40 Clara Robalo Pereira, *Optical tweezer optimisation for trapped-ion quantum simulator*
- PW 41 Pavel Rynkun, *Theoretical study of Th III energy levels and transitions*
- PW 42 Francesc Sabater, *The Fermionic Tonks-Girardeau gas: composite boson formation and a novel formulation of the ground state wave function*
- PW 43 Juan Sánchez-Baena, *Effects of curved geometry and finite temperature in dipolar Bose gases*
- PW 44 Daniel Schneider Grün, *Optical tweezer arrays of erbium atoms for quantum simulation*
- PW 45 Aleksandra Sierant, *Tailoring population transfer between two hyperfine ground states of Rb-87*
- PW 46 Martin Steinel, *Measuring black body radiation shifts with a dual species optical clock*
- PW 47 Mathias Bo Mjølén Svendsen, *Topological photon pumping in quantum optical systems*
- PW 48 Premjith Thekkepatt, *Confinement-induced stabilization of a resonantly interacting ultracold Bose-Fermi mixture*
- PW 49 Hugo Tortel, *Cold Rydberg atoms for Strontium Optical Clock thermometry*
- PW 50 Marek Tylutki, *Dissipation in Superfluid Fermi Gases*
- PW 51 Florent Vallée, *Monochromatic electrons source for surface electronic microscopy*
- PW 52 Yuri van der Werf, *A full-stack Quantum Computing Platform based on Trapped Neutral Rydberg Atoms*
- PW 53 Lucas Van Sloten, *Stark deceleration of molecules for precision measurements.*
- PW 54 Mihaela Vatasescu, *Exploring the “electronic memory” of vibrational dynamics in a laser-driven molecule: how electronic coherence and electronic-nuclear entanglement are shaping the non-Markovian electronic evolution*
- PW 55 Antonio Verdú, *Accurate Tensor Network Simulation of realistic NV centers in diamond*
- PW 56 Romain Veyron, *Quantum trajectory nonlinear averages to distinguish different unravelings in resonance fluorescence*
- PW 57 Vjekoslav Vulić, *Discrete diffraction and beam propagation in an optically induced lattice in rubidium vapor*

- PW 58 Thomas Walker, *USOC: Ultra-precise, shock-resistant optical clocks*
- PW 59 Marcin Witkowski, *Sympathetic cooling in ultracold Rb-Hg system*
- PW 60 Adam Wojciechowski, *Microwave-free magnetometry with nitrogen-vacancy centers in nanodiamonds*
- PW 61 Michail Xygkis, *Ultrahigh-density spin-polarized hydrogen isotopes from the photodissociation of hydrogen halides: new applications for laser-ion acceleration, magnetometry, and polarized nuclear fusion*
- PW 62 Cristina Yubero, *Potential model, autocorrelation function and plasma spectroscopic diagnosis*