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Monday, 4 August 2014 8:30 am - 8:45 am

Welcome Remarks

Monday, 4 August 2014 8:45 am - 10:15 am

Nobel Prize Session

D. Wineland "Quantum control of trapped ions at NIST" (45) p.32

S. Haroche "Quantum control of trapped photons with Rydberg atoms" (45) p.32

Monday, 4 August 2014 10:45 am - 12:30 pm

Quantum Gases I

T. Esslinger "Bands with a twist and quantum sized steps" (45) p.33

R. Grimm "Efimov and beyond: New developments in few-body physics with ultracold bosons and fermions" (30) p.33

Z. Hadzibabic "Uniform Bose gases" (30) p.34

Monday, 4 August 2014 2:15 pm - 4:00 pm

Artificial Atoms

J. Wrachtrup "Quantum Spin Sensors" (45) p.34

E. Waks "Coherent control of light-matter interactions in a semiconductor nanophotonic device" (30) p.35

M. Hafezi "Photons in synthetic gauge fields" (30) p.35

Chair: W. Phillips

Chair: F. Chevy

Chair: D. Meschede

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INVITED SPEAKERS

Tuesday, 5 August 2014 8:30 am - 10:15 am

Molecules

P. Julienne "Universality in Cold Molecular Collisions" (45) p.36

B. Gadway "Studying the dynamics of a long-range interacting spin system of ultracold polar molecules" (30) p.37

M. Zeppenfeld "Generating cold ensembles of polyatomic molecules" (30) p.37

Tuesday, 5 August 2014 10:45 am - 12:30 pm

Quantum Gases II

Fundamental Atomic Tests

C. Chin "Roton-Maxon Excitation of Bose Condensates in a shaken optical lattice" (45) p.38

Y. Takahashi "Quantum simulation using ultracold ytterbium atoms" (30) p.38

S. Chen "Generation and Exploration of Spin-Orbit coupled Bose Gas" (30) p.39

Tuesday, 5 August 2014 2:15 pm - 4:00 pm

D. D	eMille "ACME	E: A Search for the	Electron's Electric I	Dipole Moment" (45) p.40

K. Blaum "Fundamental tests of nature and a high-precision measurement of the atomic mass of the electron" (30) p.41

M. Kasevich "Precision Inertial Sensing Using Atom Interferometry" (30) p.41

Chair: M. Lewenstein

Chair: A. Derevianko

Chair: W. Bakr

INVITED SPEAKERS

Wednesday, 6 August 2014 8:30 am - 10:15 am

Ultrafast Science

Chair: J. Ahn

U. Keller "Attosecond ionization dynamics" (45) p.42

N. Dudovich "Resolving and manipulating attosecond processes via strong-field light-matter interactions" (30) p.43

C. Geddes "Laser plasma accelerators and photon sources" (30) p.43

Wednesday, 6 August 2014 10:45 am - 12:30 pm

Rydberg Atoms

Chair: A. Gorshkov

T. Pohl "Many-body physics with Rydberg atoms and quantum light" (45) p.44

S. Hofferberth "Rydberg quantum optics in dense ultracold gases" (30) p.44

A. Browaeys "Experimental investigations of resonant dipole-dipole interaction between cold atoms" (30) p.45

INVITED SPEAKERS

Thursday, 7 August 2014 8:30 am - 10:15 am

Quantum Calculation

J. Taylor "Quantum sensing and simulation with light and matter" (45) p.46

A. Aspuru-Guzik "Quantum Information and Quantum Computation for Chemistry" (30) p. 46

A. White "Photonic Quantum Simulation" (30) p.47

Thursday, 7 August 2014 10:45 am - 12:30 pm

Precision Measurements

K. Eikema "Ramsey-comb spectroscopy: high power and accuracy combined" (45) $\rm p.48$

A. Ludlow "Ultra-precise atomic timekeeping with the optical lattice clock" (30) p.48

E.~Peik "Optical clocks based on strongly forbidden electronic and nuclear transitions in trapped ions" (30) p.49

Thursday, 7 August 2014 2:15 pm - 4:20 pm

Hot Topics I

U. Schneider "An Aharonov-Bohm interferometer for determining Bloch band topology" (25) p.50

L. Fallani "SU(N) fermions: multicolor physics and orbital magnetism" (25) p.51

F. Ferlaino "Dipolar physics with ultracold atomic magnets" (25) p.52

P. Cappellaro "Quantum control strategies for imaging and spectroscopy" (25) p.52

J. Doyle "Detecting the Chirality of Molecules using Buffer-gas Cooling and Phase Sensitive Three-wave Mixing" (25) p.53

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Chair: I. Spielman

Chair: M. Safronova

Chair: I. Novikova

Friday, 8 August 2014 8:30 am - 10:15 am

Bose Gases

Chair: M. Inguscio

J. Dalibard "The uniform 2D Bose gas, in and out of equilibrium" (45) p.54

Y. Shin "Geometric Hall Effect in a Spinor Bose-Einstein Condensate" (30) p.55

S. Stringari "Superstripes in spin orbit coupled Bose-Einstein condensed gases" (30) p.55

Friday, 8 August 2014 10:45 am - 12:30 pm

Quantum Simulation/Ions/Molecules	Chair: B. Odom
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P. Zoller "Quantum Simulation of Dynamical Gauge Fields with Cold Atoms" (45) p.56

E. Hudson "Sympathetic cooling of molecules with laser-cooled atoms" (30) p.57

M. Köhl "Direct photonic coupling of a semiconductor quantum dot and a trapped ion" (30) p.57

Friday, 8 August 2014 2:00 pm - 3:45 pm

Hybrid Quantum Systems

Chair: P. Treutlein

A. Rauschenbeutel "Breaking the mirror symmetry of spontaneous emission via spin-orbit interaction of light" (45) p.58

C. Regal "Two-atom quantum interference in tunnel-coupled optical tweezers" (30) p.58

O. Painter "Phonon counting experiments in cavity-optomechanics" (30) p.59

INVITED SPEAKERS

Friday, 8 August 2014 4:00 pm - 6:05 pm

Hot Topics II

Chair: S. Gupta

J. Reichel "Creating entanglement in an ensemble of 40 atoms using quantum feedback and quantum Zeno dynamics in a fiber cavity" (25) p.59

M. Oberthaler "Detection of entanglement of non-gaussian atomic states and upscaling of atomic squeezing to large atom numbers" (25) p.60

P. Richerme "Simulating quantum many-body dynamics with trapped atomic ions" (25) p.61

D. Hall "Dirac Monopoles in a Synthetic Magnetic Field" (25) p.61

V. Vuletic "Very Attractive Photons" (25) p.62

Bose Gases

Mon-001	The <i>p</i> -orbital Bose-Einstein condensation of two-species mixture in a bipartite square optical lattice - <i>Liu</i>
Mon-002	Dynamics of ultracold atoms in amplitude-modulated parabolic lattices -
	Yamakoshi
Mon-003	Novel quantum phenomena of atomic quantum gas in a shaken optical lattice -
	На
Mon-004	Direct observation of chiral order in double layer superfluid - Ewerbeck
Mon-005	Effective preparation of atomic condensates in excited bands of an optical lattice by standing-wave pulses - <i>Zhou</i>
Mon-006	Tunneling-Induced Restoration of the Degeneracy and the Time-Reversal
	Symmetry Breaking in Optical Lattices - Sowinski
Mon-007	Using Tilted, Modulated Lattices to Implement Novel Hamiltonians - <i>Burton</i>
Mon-008	Bosons in optical lattices: beyond the Bose-Hubbard Hamiltonian - <i>Carbonell</i> -
	Coronado
Mon-009	Ultracold Atoms in a Tunable Optical Kagome Lattice - <i>Barter</i>
Mon-010	Bose-Einstein condensation of ultra-cold atoms in a frustrated, triangular optical
	lattice - Mathey
Mon-011	Magnetometric Probe of an Ultra-cold Spinor Gas - <i>Higbie</i>
Mon-012	Quantum dynamics of spin waves using ultracold atoms - Fukuhara
Mon-013	Quantum control of a many-body system in a spin-1 Bose-Einstein condensate -
	Hoang
Mon-014	Investigation of Kibble-Zurek quench dynamics in a spin-1 ferromagnetic BEC -
	Anquez
Mon-015	Metastable Spin Texture of Spin-1 Bose-Einstein Condensates in a Ring Trap -
	Kunimi
Mon-016	Dipolar ultracold atoms in a double well trap - Vernac
Mon-017	Quantum phases in an asymmetric double-well optical lattice - Paul
Mon-018	Experiments with BECs in a Painted Potential: Atom SQUID, Matter Wave
	Bessel Beams, and Matter Wave Circuits - Boshier
Mon-019	Observation of Solitonic Vortices in Bose-Einstein Condensates - Donadello
Mon-020	Ring Dark Solitons in Toroidal Bose-Einstein Condensates - Toikka
Mon-021	One dimensional atomic rings with barriers: a Luttinger liquid approach to
	precision measurement - Ragole
Mon-022	Finite-Temperature Effects in ring-shaped Bose-Einstein condensates - Edwards
Mon-023	Investigation of Critical correlations in an ultracold Bose gas by means of a
	temporal Talbot-Lau interferometery - Chen
Mon-024	Collective modes of a two-dimensional quantum gas - Merloti
Mon-025	Measurement-based control of many-body systems - Heck
Mon-026	A novel experiment for coupling a Bose-Einstein condensate with two crossed
	cavity modes - <i>Leonard</i>
Mon-027	Heat Capacity of a Bose-Einstein condensate measured through Global variables - <i>Telles</i>

Mon-028	Probing the excitation spectrum of a ring-shaped Bose-Einstein Condensate - <i>Wang</i>
Mon-029	Dynamics of coupled mixtures in optical lattices - <i>Reeves</i>
Mon-030	Superfluid Atomtronic Circuits - <i>Eckel</i>
Mon-031	Emergence of coherence in a 2D uniform Bose gas - Chomaz
	Few Body Interactions and Collisions
Mon-032	Three-body recombination of helium atoms from ultracold to thermal energies: classical trajectory vs. quantal calculations - <i>Pérez-Ríos</i>
Mon-033	Field dependent studies of inelastic scattering properties in an ultracold mixture of lithium and metastable ytterbium - <i>Roy</i>
Mon-034	Measurements of Na - Na ⁺ total collision rate - Goodman
Mon-035	Dynamics of gas phase Ne*-ND ₃ Penning ionization at low temperatures - Jachymski
Mon-036	Few-body interactions in an ultacold Bose-Fermi mixture - Jiang
Mon-037	Collisional Properties of Ultracold Radium Isotopes - Dammalapati
	Cooling and Trapping of Atoms and lons
Mon-038	Very low power two-photon absorption in cold ⁸⁷ Rb atoms using an optical nanofiber - <i>Gokhroo</i>
Mon-039	A nanostructured tapered optical fiber for cold atom trapping - Nic Chormaic
Mon-040	Laser cooling with three-level cascade transitions: calculations for group I and II atoms and prospects for tests with calcium - <i>Cruz</i>
Mon-041	Atomic Interactions with a Bichromatic Field: Stimulated Emission and Laser Cooling - <i>Singh</i>
Mon-042	Dynamics of Polychromatic Optical Forces for Deceleration of Atoms and Molecules - <i>Galica</i>
Mon-043	Laser Cooling without Spontaneous Emission - Corder
Mon-044	Localized Interactions between Laser-cooled Atoms and Optical Near-field - Ichinoseki
Mon-045	Surface Science with Trapped Ions - Noel
	Ultracold Mixtures and Molecules
Mon-046	Towards a MOT of CaF - Hemmerling
Mon-047	Magnetic Slowing, Optical Loading and Magnetic Trapping of CaF and K - <i>Kozyryev</i> *
Mon-048	Laser cooling and slowing of CaF molecules - Hambach
Mon-049	MM-Wave Spectroscopy and Determination of the Radiative Branching Ratios of ¹¹ Bh for Laser Cooling Experiments - <i>Truppe</i>
Mon-050	Magneto-Optical Trapping of a Diatomic Molecule - Norrgard
Mon-051	Towards ultracold LiK ground-state molecules - Debatin
Mon-052	Dual Component ⁸⁷ Rb and ⁴¹ K Bose-Einstein condensates in configurable optical potentials - <i>Neely</i>
Mon-052	Mixtures of Bose-Fermi superfluids - Chevy
Mon-054	Designing an ultracold Yb-Li mixture with controllable interactions - Schaefer
Mon-055	High-Resolution Spectroscopy of Trilobite-Like States of ⁸⁵ Rb ₂ - <i>Carollo</i>

Mon-056	The creation of ultracold RbCs molecules in the rovibrational ground state - Cornish
Mon-057	Thermalization and progress to degeneracy in a mixture of rubidium-87 and ytterbium - <i>Vaidya</i>
	Intense Fields and Ultrafast Phenomena
Mon-058	Electron Dynamics and Terahertz Emission in Two-Color Photoionization - You
Mon-059	Electron-Rescattering from Ar and Xe induced by Intense Laser Filed: Above Threshold Ionization and Rydberg Excitation - <i>Ding</i>
Mon-060	Benchmark H_2 few-cycle photoionisation measurements and laser intensity calibration with percent-level accuracy - <i>Sang</i>
Mon-061	Ionisation of metastable states of neon using few-cycle light fields - Calvert
Mon-062	Characterisation of intense few-cycle laser pulses from photo-ionisation of atomic hydrogen - <i>Wells</i>
Mon-063	Strong-field ionization of helium by elliptically polarized light in attoclock configuration - <i>Ivanov</i>
Mon-064	Improving conversion efficiency of high harmonic generation with gas mixtures - <i>Sayraç</i>
Mon-065	Signatures of field-induced intramolecular quantum interference in high-order harmonic generation by laser-irradiated homonuclear diatomic(s) - <i>Usachenko</i>
	Quantum Optics and Cavity QED
Mon-066	Coherent population trapping (CPT) coupled by magnetic dipole interactions - <i>Han</i>
Mon-067	High Conversion Efficiency in the Resonant Four-Wave Mixing Process - Lee
Mon-068	Dynamics of strongly interacting photons in waveguides: a generalized input- output formalism - <i>Caneva</i>
Mon-069	Coherent population trapping in a two field cavity-QED system: Semiclassical Theory - <i>Zou</i>
Mon-070	Coherent coupling of hybrid alkali vapor through spin-exchange collisions - Katz
Mon-071	Observation of Paired Superradiance - Uetake
Mon-072	Cavity QED in the Recoil Resolved Regime - Klinder
Mon-073	Nonequilibrium phase transitions in periodically-driven cavity QED systems - <i>Mori</i>
Mon-074	Strong atom-light interactions in 1D photonic crystals - Goban
Mon-075	Crossover from Lasing to Photon Bose-Einstein condensation by Photon Gas Thermalization - <i>Schmitt</i>
Mon-076	Fiber cavity-based photon-ion interfaces - Maiwald
Mon-077	Building a hybrid quantum system of neutral atoms coupled to a superconducting circuit - <i>Grover</i>
Mon-078	Atom induced cavities and tunable long-range interactions between atoms trapped near photonic crystals - <i>Douglas</i>
Mon-079	2-D spectrum of an optical microcavity coupled to a few atoms - Lien
Mon-080	Graphene plasmons quality factors - Jablan
Mon-081	Single-photon second-order nonlinear processes in graphene - Manzoni
Mon-082	Room temperature coherent population trapping with nuclear spins in diamond - <i>Jamonneau</i>
Mon-083	Coherent spin control of a nanocavity-enhanced qubit in diamond - <i>Chen</i>

PegahanMon-088Quantum storage based on the control field angular scanning - ZhangMon-089Time-Continuous Bell Measurements - VasilyevMon-090A Monte Carlo wavefunction method for semiclassical simulations of spin- position entanglement - BillingtonMon-091Individual Addressing of Trapped Ions with MEMS-based Beam Steering - Crain Mon-092Mon-092Quasiparticle engineering and entanglement propagation in a quantum many- body system - HempelMon-093Femtosecond Ramsey interferometry for atomic qubit state measurement - LeeQuantum Simulation	Mon-084	Size-dependence of radiation power thermally emitted from a microparticle - Tachikawa
Mon-086 Modal decomposition and control of higher-order modes in silica nanofibers - Fatemi Ouantum Information Mon-087 Entanglement Generation in a Multi-Qubit System Coupled to Heat Bath - Pegahan Mon-088 Quantum storage based on the control field angular scanning - Zhang Mon-089 Time-Continuous Bell Measurements - Vasilyev Mon-090 A Monte Carlo wavefunction method for semiclassical simulations of spin- position entanglement - Billington Mon-091 Individual Addressing of Trapped Ions with MEMS-based Beam Steering - Crain Mon-092 Quasiparticle engineering and entanglement propagation in a quantum many- body system - Hempel Mon-093 Femtosecond Ramsey interferometry for atomic qubit state measurement - Lee Ouantum Simulation Quantum Simulation of Unphysical operation with a Trapped Ion - Zhang Mon-094 Quantum Simulation of Information in long-range interacting quantum lattice system Cong Mon-095 Single phonon addition to thermal mechanical motion of trapped ion - Slodička Mon-098 Ultrafast entanglement of trapped ions - Neyenhuis Mon-099 Population transfer collisions involving nD Rydberg atoms in a CO ₂ optical dipole trap - Kondo Mon-100 Aggregation of Rydberg excitations in a dense thermal vapor cell - Urvoy Mon-101 Design and simulation of a cold Rydberg	Mon-085	
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Tue-132	Buffer gas cells and quantum cascade lasers: towards measuring parity violation in chiral molecules using vibrational spectroscopy - <i>Tokunaga</i>
Tue-133	Progress in barium tagging for the next generation 136 Xe double beta decay experiment - <i>Walton</i>
Tue-134	Towards an improved measurement of the n=2 triplet P fine structure of helium - <i>Kato</i>
Tue-135	Neutrino spectroscopy with atoms and molecules - Masuda
Tue-136	The Cold Atom Gravimeter at the µ-Gal-Level for Field Applications - Wang
Tue-137	Critical Nuclear Charge and Electron Charge Distribution for Two-Electron
	Atoms - Drake
	Atomic Clocks
Tue-138	Progress Toward a Spin Squeezed Optical Atomic Clock Beyond the Standard

Quantum Limit - Braverman

Tue-139	Near-Heisenberg-Limited Atomic Clocks in the Presence of Decoherence -
	Borregaard
Tue-140	Hunting for topological dark matter with atomic clocks - Derevianko
Tue-141	Trapping Ra ⁺ : Optical Clock and Atomic Parity Violation - <i>Dijck</i>
Tue-142	Sorting ions in an two-species ion chain by amplitude-modulated laser beams for a new In^+ optical clock - <i>Ohtsubo</i>
Tue-143	Agile coherent control of ions in a microfabricated trap - Thom
Tue-144	Highly-charged ions for atomic clocks, quantum information, and search for α -
	variation - Safronova
	New Experimental and Theoretical Techniques
Tue-145	High power, very narrow linewidth, micro-integrated diode laser modules designed for quantum sensors in space - <i>Kohfeldt</i>
Tue-146	Towards a fully-miniaturised magneto-optical trap system for portable ultracold quantum technology - <i>Aldous</i>
Tue-147	Locking Raman laser frequency of up to 40 GHz offset for atom interferometers - <i>Wang</i>
Tue-148	Optical phase locking of two extended-cavity diode lasers : direct modulation and serrodyne modulation - <i>Yim</i>
Tue-149	A Dynamic Magneto-Optical Trap for Atom Chips - Rushton
Tue-150	Holographic Laguerre-Gaussian beams for long-distance channeling of a 2D-
	MOT generated cold atom beam <i>Carrat</i>

Thursday Poster Session

Fermi Gases

BEC crossover regime of on of an ultracold Fermi
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Jonequilibrium Thermo
d Fermi gas at T=0 - Endo
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Na
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odium Bose-Einstein
ield - <i>Yamazaki</i>
ield - Yamazaki atoms - Juzeliūnas

Thu-024	Roton and phonon modes softening in quantum gases with spin-orbit coupling - Ji
Thu-025	Experimental apparatus for producing the Bose-Einstein condensate of Ytterbium(Yb) - <i>Mun</i>
Thu-026	Numerical analysis of quantum transport equation derived from nonequilibrium Thermo Field Dynamics in Markovian approximation - <i>Kuwahara</i>
Thu-027	Experimental probing of non-equilibrium Quantum Many-Body Systems - Schweigler
Thu-028	Creation of excitations from a uniform impurity motion in the condensate - Suzuki
Thu-029	Structure factor of ultra-cold bosons in two-dimensional optical lattices - Zaleski
Thu-030	Quantum state for zero mode of cold atomic gas system with Bose-Einstein condensate - <i>Nakamura</i>
	Few Body Interactions and Collisions
Thu-031	Two-particle coalescences for the helium-like ions Liverts
Thu-032	Full control over two interacting fermions in a single double well - Murmann
Thu-033	Ultracold mixtures of metastable He and Rb: scattering lengths from <i>ab initio</i> calculations and thermalization measurements - <i>Knoop</i>
Thu-034	Efimov Resonances in a Mixture with Extreme Mass Imbalance - Ulmanis
Thu-035	The influence of confinement, dimensionality, and anisotropy on effective multibody interactions of trapped ultracold bosons <i>Johnson</i>
Thu-036	Towards optical Feshbach resonances with ⁴⁰ Ca - <i>Pachomow</i>
Thu-037	Long range interactions of Sr and Yb in mixed quantum gases Porsev
Thu-038	The Degenerate Unitary Bose Gas - Xie
	Ultracold Mixtures and Molecules
Thu-039	Dipolar gases of ground state molecules: NaK in Hannover - Zenesini
Thu-040	Precision measurements with ultracold Sr_2 molecules in optical lattices - McGuyer
Thu-041	Rf-induced association of ultracold molecules in ⁸⁷ Rb Mordovin
Thu-042	Photoassociative production of Feshbach molecules of ytterbium by using the ultranarrow ${}^{1}S_{0}$ - ${}^{3}P_{2}$ transition - <i>Taie</i>
Thu-043	Isotopic analysis of Na-K Feshbach resonances and molecules - Simoni
Thu-044	Ultracold molecules: far-from-equilibrium quantum magnetism - Hazzard
	Cooling and Trapping of Atoms and Ions
Thu-045	A dual species magneto-optical trap of Cs and Yb - Freytag
Thu-046	Two-Stage Magneto-Optical Trapping of ⁶ Li Using D2 Line and Narrow-Line Cooling to High Phase-Space Density - <i>Sebastian</i>
Thu-047	Grey-molasses cooling of an optically trapped Fermi gas - Edge
Thu-048	Dual isotope magneto-optical trap with only one laser beam - Hamzeloui
Thu-049	Magneto-optical traps for Yb, Tm, Er, and Ho loaded from a buffer-gas beam source - <i>Chae</i>
Thu-050	Neutral Gas Sympathetic Cooling of an Ion in a Paul Trap - Chen

Thu-051 Thu-052	Quantum interactions in a hybrid atom-ion trap - <i>Schowalter</i> Advancing surface-electrode ion trap capabilities: demonstrations of ball grid arrays, active in-vacuum control electronics, and integrated diffractive optics - <i>Amini</i>
Thu-053	Nano-friction between crystals of light and ions with atomic resolution and control from one- to many-body physics - <i>Bylinskii</i>
Thu-054	'Alligator' photonic crystal waveguides for single-atom trapping and strong light-matter interactions - Yu
	Quantum Optics and Cavity QED
Thu-055 Thu-056	Injection of angular momentum in a polariton superfluid - <i>Glorieux</i> Observation of Grand-canonical Number Statistics in a Photon Bose-Einstein condensate - <i>Schmitt</i>
Thu-057 Thu-058	Light-Wave Mixing and Scattering with Quantum Gases - <i>Deng</i> Sympathetic cooling of a membrane oscillator in a hybrid mechanical-atomic system - <i>Kampschulte</i>
Thu-059	Optical Frequency Combs and Temporal Solitons in Optical Microresonators - Jost
Thu-060	Self-organized optomechanical structures - Ackemann
Thu-061	Feedback cooling using a near-Heisenberg-limited position measurement - <i>Wilson</i>
Thu-062	Optomechanics with ultra cold Rydberg gases - Wüster
Thu-063	Cavity Opto-Mechanics with Cold Atoms: Force Sensing near the Standard Quantum Limit and Coupled Oscillators - <i>Spethmann</i>
Thu-064	From membrane-in-the-middle to mirror-in-the-middle with a high-reflectivity sub-wavelength grating - Xu
Thu-065	A scanning cavity microscope - Hunger
Thu-066	Thermodynamic corrections to mechanical oscillations - Wang
Thu-067	A Useful Entanglement Resource; 10 dB Spin Squeezing with Cavity QND Measurements - <i>Cox</i>
Thu-068	Quantum metrology frontiers with highly squeezed quantum states of atomic ensembles - <i>Hosten</i>
Thu-069	Quantum Zeno dynamics of a Rydberg atom - Gleyzes
Thu-070	Generation of multiparticle entangled states using quantum Zeno dynamics - <i>Barontini</i>
	Quantum Information
Thu-071	Many-particle entangled states of two-component Bose-Einstein condensates - <i>Schmied</i>
Thu-072	Atomic twin Fock states in momentum space - Lopes
Thu-073	Quantum networking and sensing efforts at the Army Research Laboratory - <i>Stack</i>
Thu-074	Towards the Detection of Momentum Entangled Atom Pairs - Keller
Thu-075	Control of Quantum Dynamics on an Atom-Chip - Herrera

Thu-076	High-fidelity cluster state generation of ultracold atoms in an optical lattice - <i>Tokunaga</i>
Thu-077	Coherent optical memory with 94% efficiency - Hsiao
	Rydberg Atoms
Thu-078	Towards Single-Photon Nonlinear Optics via Pattern Formation in Spatially Bunched Atoms - <i>Schmittberger</i>
Thu-079	Optical properties of a strongly correlated array of induced dipoles - Bettles
Thu-080	Photonic Controlled-Phase Gate Based on Rydberg Interactions - Khazali
Thu-081	Single-Photon Switch and Transistor Based on Rydberg Blockade - Duerr
Thu-082	Strongly Interacting Photons in a Rydberg Polariton Gas: Few
	Photon Spectroscopy and Coulomb Bound States - Gullans
	Quantum Simulation
Thu-083	Generating topological spin textures in spinor Bose-Einstein condensates by a stimulated Raman interaction - <i>Hansen</i>
Thu-084	Stability of a Floquet Bose-Einstein condensate in a one-dimensional optical lattice - <i>Choudhury</i>
Thu-085	Topological phases in spin-orbit coupled dipolar bosons in a one-dimensional lattice - Ng
Thu-086	Fractionalized Majorana fermions (parafermions) with ultracold atoms - Maghrebi
Thu-087	<i>p</i> -wave pair amplitude and <i>s</i> -wave superfluid phase transition in the BCS-BEC crossover regime of an ultracold Fermi gas with a spin-orbit interaction - <i>Yamaguchi</i>
Thu-088	Implementation, phase structure and real time dynamics in atomic quantum
Thu-089	simulators of lattice Gauge-Higgs theory <i>- Kasamatsu</i> Collective mode analysis of a Bose-Einstein condensate in a density-dependent
1110-005	gauge potential - Edmonds
Thu-090	Synthetic Spin-Orbit Coupling Without Light - Anderson
Thu-091	Self-organized Rice-Mele model in ultracold atoms - Przysiężna
Thu-092	Optical-lattice Floquet systems - <i>Eckardt</i>
Thu-093	Measuring geometric phases in Bloch bands: The topology of a Dirac cone - <i>Reitter</i>
Thu-094	Quantum magnetism of bosons with synthetic gauge fields in one-dimensional
1114 00 1	optical lattices: a Density Matrix Renormalization Group study - <i>Piraud</i>
Thu-095	Synthetic fields in synthetic dimensions - <i>Stuhl</i>
Thu-096	Topologically Robust Transport of Photons in a Synthetic Gauge Field - <i>Mittal</i>
Thu-097	Atomic Hong-Ou-Mandel effect in tunnel-coupled optical tweezers - Kaufman
Thu-098	Quantum co-walking of two interacting particles in one-dimensional lattices -
	Qin
Thu-099	Direct Observation of Strongly Correlated Bosonic Quantum Walks - Ma
Thu-100	In situ probing of interacting fermions in an optical lattice - Cocchi
Thu-101	Fermi Gas Microscope with Lithium-6 - Parsons
Thu-102	Quantum gas microscope of ytterbium atoms - Miranda

Thu-103	Experimental demonstration of more than 100 individually addressable qubits for quantum simulation and quantum computation - <i>Schlosser</i>
Thu-104	Qubit fidelity of a single atom transferred among the sites in a ring lattice - Yu
Thu-104 Thu-105	Coherent dipole-dipole coupling between two single atoms at a Förster
11111-105	resonance - Ravets
Thu-106	A 2D array of Rydberg coupled atomic qubits - <i>Lichtman</i>
1110 100	
	Spectroscopy, Atomic and Molecular Structure
Thu-107	The $4d^8$ - $4d^7(4f + 6p)$ transitions of In VI
Thu-108	Photoionizing ¹⁷⁴ Yb ⁺ to ¹⁷⁴ Yb ²⁺ - <i>Heugel</i>
Thu-109	Precision frequency measurement of transitions between singlet states in atomic helium - <i>Luo</i>
Thu-110	Probing near threshold double and single ionization of helium atoms - Purohit
Thu-111	The dynamical properties of autoionization of rare-earth Eu atom - Dai
Thu-112	Enantiomer-specific detection of chiral molecules via microwave spectroscopy - Patterson
Thu-113	Theoretical transition rates of forbidden lines in doubly-ionized iron group elements - <i>Fivet</i>
Thu-114	Second Spectrum of Selenium - Tauheed
Thu-115	High-precision nonadiabatic calculations of dynamic polarizabilities and
	hyperpolarizabilities for low-lying vibrational-rotational states of hydrogen molecular ions - <i>Tang</i>
Thu-116	Atomic hyperpolarisabilities and the non-linear optics of atomic gases -
1114 110	Grunefeld
Thu-117	Measurement of the 5D Level Polarizability in Laser Cooled Rb Atoms - Snigirev
	Atom Interferometry
Thu-118	An analog of polarization in atom optics: a Raman waveplate to measure the Gouy phase in matter waves - <i>Schultz</i>
Thu-119	Atomic matter-wave interferometer on an external atomchip - Kim
Thu-120	A programmable broadband low frequency active vibration isolation system for atom interferometry - <i>Tang</i>
Thu-121	Manipulation of atomic velocities with broadband light-pulse atom interferometry - <i>Gregory</i>
Thu-122	A milliradian phase resolution Ca atom interferometer with transparent ITO electrodes - <i>Akentyev</i>
Thu-123	Large Momentum Transfer and Faster Signal Scalings in Acceleration-Sensitive Atom Interferometry - <i>McDonald</i>
	Precision Measurements and Fundamental Tests
Thu-124	Progress towards in-beam hyperfine spectroscopy of antihydrogen - Widmann
Thu-125	ALPHA-2: an upgraded apparatus for physics with trapped antihydrogen - Eriksson
Thu-126	Positron storage for the production of an antihydrogen beam - <i>Murtagh</i>
Thu-127	Production of a cold antihydrogen beam with a cusp trap - <i>Radics</i>

Thu-128	Hyperfine structure and relativistic corrections to ro-vibrational energy levels of the D_2^+ ion - Zhang
Thu-129	$\mu { m Test}$ of the change of m_p/m_e using laser cooled and optically trapped $^{40}{ m CaH}$ -
Thu-130	<i>Kajita</i> Test of m_p/m_e variation via measurement of N ₂ ⁺ vibrational transition frequencies - <i>Kajita</i>
Thu-131	Test of Einstein Equivalence Principle with bosonic and fermionic quantum matter: Search for spin-gravity coupling effects - <i>Tarallo</i>
Thu-132	Species-Selective Lattice Launch for High-Precision Atom Interferometry - Chamakhi
Thu-133	Testing General Relativity in a terrestrial lab through laser gyroscopes - Beverini
	Atomic Clocks
Thu-134	Magic wavelengths measurement via observation of light shift on $^{40}Ca^+$ optical frequency standard - Gao
Thu-135	Determination of the magic wavelength for the 1S_0 – 3P_0 transition in magnesium 24 $$ - Fim
Thu-136	Improving the stability of an atomic clock - Schioppo
Thu-137	Reducing the Uncertainty of Blackbody Radiation Shift in a Strontium Optical Clock - <i>Al-masoudi</i>
Thu-138	Precise characterization of the blackbody radiation environment in an optical lattice clock - <i>Beloy</i>
Thu-139	The SOC2 transportable ¹⁷¹ Yb lattice clock - <i>Goerlitz</i>
Thu-140	An ultra-low frequency-noise laser based on a 48 cm long ULE cavity for a Sr lattice clock - <i>Häfner</i>
Thu-141	Dual species intercombination MOT of ¹⁷¹ Yb and ⁸⁷ Sr: Toward a dual optical lattice clock - <i>Akamatsu</i>
Thu-142	Measurement of the clock-transition spectrum of the ultracold ytterbium atoms - Xu^*
Thu-143	Comparison between a strontium optical lattice clock with primary and secondary frequency standards - <i>Robyr</i>
	New Experimental and Theoretical Techniques
Thu-144	Non-destructive imaging and feedback stabilized production of cold atomic clouds - <i>Gajdacz</i>
Thu-145	Dispersive probing as a tool for monitoring dynamical processes in ultracold gases - <i>Deb</i>
Thu-146	Compact semiconductor laser modules for precision quantum optical experiments in space - <i>Lewoczko-Adamczyk</i>
Thu-147	Subwavelength alteration of one-dimensional optical lattices using radiofrequency-induced adiabatic potentials - <i>Lundblad</i>
Thu-148	Scalable 2D array of dipole traps formed by pinhole diffraction for neutral atom quantum computing - <i>Gillen-Christandl</i>

- Thu-149 Design of optical Talbot focal point array for neutral atom quantum computing -*Kim*
- Thu-150 Bose-Einstein Condensation in a Periodic Magnetic Lattice *Wang*

Beyond Atomic Physics

- Thu-151 Generalized Thermodynamic Properties Morales
- Thu-152 Supersymmetry, shape invariance and the hypergeometric equation *Pushpa*
- Thu-153 On the Geometric Implications of Maxwell's Equations Smith