

Atomic Physics Division Fachverband Atomphysik (A)

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Overview of Invited Talks and Sessions

(Lecture rooms: BEBEL E34, BEBEL E42, BEBEL E44/46, BEBEL SR140/142 and UDL HS3038; Posters: Spree-Palais)

Invited Talks

A 10.1	Mon	14:00–14:30	BEBEL E44/46	Coulomb effects and correlation in strong laser-driven quantum dynamics — ●DIETER BAUER
A 18.1	Tue	14:00–14:30	BEBEL E34	Determination of chiral molecules' handedness — ●MARKUS SCHÖFFLER
A 19.1	Tue	14:00–14:30	BEBEL E42	The molecular double slit: transition from random to oriented target properties — ●GREGOR HARTMANN
A 29.1	Wed	14:00–14:30	UDL HS3038	Single charged impurities inside a Bose-Einstein condensate — ●SEBASTIAN HOFFERBERTH
A 30.1	Wed	14:00–14:30	BEBEL E42	Stimulated electronic x-ray Raman scattering using x-ray free-electron lasers — ●NINA ROHRINGER
A 37.1	Thu	10:30–11:00	BEBEL E42	Electron-impact ionization of highly-charged heavy ions relevant for plasma applications — ●ALEXANDER BOROVNIK
A 38.1	Thu	10:30–11:00	BEBEL E44/46	Unusual electron dynamics in He clusters induced by intense XUV pulses — ●YEVHENIY OVCHARENKO
A 41.1	Thu	14:00–14:30	BEBEL E42	Quantum systems in ultra-strong lasers: from tunnel ionization to spin dynamics — ●HEIKO BAUKE

Invited talks of the joint symposium SYCS

See SYCS for the full program of the symposium.

SYCS 1.1	Mon	10:30–11:00	Audimax	Electron dynamics in chiral systems: From structure determination to violation of fundamental symmetries — ●ROBERT BERGER
SYCS 1.2	Mon	11:00–11:30	Audimax	Electron Scattering in Chiral Photoionization: probing fundamental electron-molecule interactions to chiral molecular recognition — ●IVAN POWIS
SYCS 1.3	Mon	11:30–12:00	Audimax	Enantiomer Identification of Chiral Molecules in Mixtures using Microwave Three-Wave Mixing — ●MELANIE SCHNELL
SYCS 1.4	Mon	12:00–12:30	Audimax	Mass-selective circular dichroism spectroscopy of chiral molecules — ●ULRICH BOESL

Invited talks of the joint symposium SYQR

See SYQR for the full program of the symposium.

SYQR 2.1	Mon	14:00–14:30	Audimax	Protocols and prospects for building a quantum repeater — ●PETER VAN LOOCK
SYQR 2.2	Mon	14:30–15:00	Audimax	Quantum teleportation from a telecom-wavelength photon to a solid-state quantum memory — ●FELIX BUSSIERES
SYQR 2.3	Mon	15:00–15:30	Audimax	Semiconductor quantum light sources for quantum repeaters — ●PETER MICHLER
SYQR 2.4	Mon	15:30–16:00	Audimax	Quantum networks based on cavity QED — ●STEPHAN RITTER

Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	10:30–11:00	Audimax	Rotationally resolved fluorescence spectroscopy - from neurotransmitter to conical intersection — ●CHRISTIAN BRAND
SYAD 1.2	Tue	11:00–11:30	Audimax	Quantum simulations with ultracold atoms: Beyond standard optical lattices — ●PHILIPP HAUKE
SYAD 1.3	Tue	11:30–12:00	Audimax	Degenerate quantum gases of alkaline-earth atoms — ●SIMON STELLMER
SYAD 1.4	Tue	12:00–12:30	Audimax	One step beyond entanglement: general quantum correlations and their role in quantum information theory — ●ALEXANDER STRELTSOV

Invited talks of the joint symposium SYSE

See SYSE for the full program of the symposium.

SYSE 1.1	Wed	14:00–14:30	Audimax	Addressing open questions of stellar evolution with laboratory experiments — ●ALMUDENA ARCONES
SYSE 1.2	Wed	14:30–15:00	Audimax	Methods and problems of the modern theory of stellar evolution — ●ACHIM WEISS
SYSE 1.3	Wed	15:00–15:30	Audimax	Photoabsorption and opacity in the X-ray region: The role of highly charged ions — ●JOSÉ R. CRESPO LÓPEZ-URRUTIA
SYSE 1.4	Wed	15:30–16:00	Audimax	Neutron-rich matter: From cold atoms to neutron stars — ●ACHIM SCHWENK

Prize talks of the joint symposium SYAW

See SYAW for the full program of the symposium.

SYAW 1.1	Wed	14:00–14:30	Kinosaal	Semicrystalline polymers - pathway of crystallization and deformation properties — ●GERT STROBL
SYAW 1.2	Wed	14:30–15:00	Kinosaal	A measurement of the evolution of Interatomic Coulombic Decay in the time domain — ●TILL JAHNKE
SYAW 1.3	Wed	15:00–15:30	Kinosaal	A one-dimensional liquid of fermions with tunable spin — ●MASSIMO INGUSCIO
SYAW 1.4	Wed	15:30–16:00	Kinosaal	Non-equilibrium: from heat transport to turbulence (to life). — ●DAVID RUELLE
SYAW 2.1	Wed	16:30–17:00	Kinosaal	Investigation of charge transfer efficiency of CCD image sensors for the scientific small satellite mission “AsteroidFinder” — ●ANDREJ KRIMLOWSKI
SYAW 2.2	Wed	17:00–17:30	Kinosaal	Metrology of atomic hydrogen: from the Rydberg constant to the size of the proton — ●FRANÇOIS BIRABEN

Invited talks of the joint symposium SYPS

See SYPS for the full program of the symposium.

SYPS 1.1	Thu	14:10–14:40	Audimax	Oxygen and imaging, a perfect match — ●DAVID PARKER
SYPS 1.2	Thu	14:40–15:10	Audimax	Attosecond imaging — ●MARC VRAKING
SYPS 1.4	Thu	15:25–15:55	Audimax	Applications of the fast imaging Pixel Imaging Mass Spectrometry camera — ●MARK BROUARD
SYPS 2.1	Thu	16:30–17:00	Audimax	Unraveling the dynamics of state- and conformer selected molecules fixed in space with the VMI — ●JOCHEN KÜPPER
SYPS 2.3	Thu	17:15–17:45	Audimax	Velocity map imaging: from molecules to clusters, nanoparticles and aerosols — ●MICHAL FARNIK
SYPS 2.5	Thu	18:00–18:30	Audimax	Velocity map imaging studies of quantum state resolved scattering at gas-solid and gas-SAMs surfaces — ●DAVID J. NESBITT

Invited talks of the joint symposium SYQS

See SYQS for the full program of the symposium.

SYQS 1.1	Fri	10:30–11:15	Audimax	Tutorial Complex Systems: From Classical to Quantum, from Single to Many Particle Problems — ●KLAUS RICHTER
SYQS 1.2	Fri	11:30–12:00	Audimax	Multiphoton random walks: Experimental Boson Sampling on a photonic chip — ●IAN WALMSLEY
SYQS 2.1	Fri	14:00–14:30	Audimax	Charge transfer and quantum coherence in solar cells and artificial light harvesting systems — ●CHRISTOPH LIENAU
SYQS 2.6	Fri	15:30–16:00	Audimax	Feedback control: from Maxwell’s demon to quantum phase transitions — ●TOBIAS BRANDES
SYQS 3.4	Fri	17:15–17:45	Audimax	Multi-photon dynamics in complex integrated structures — ●FABIO SCIARRINO
SYQS 3.5	Fri	17:45–18:15	Audimax	Complexity and many-boson coherence — ●MALTE TICHY

Sessions

A 1.1–1.8	Mon	10:30–12:30	BEBEL E34	Ultra-cold atoms, ions and BEC I (with Q)
A 2.1–2.8	Mon	10:30–12:30	BEBEL E42	Precision spectroscopy of atoms and ions I (with Q)
A 3.1–3.8	Mon	10:30–12:30	BEBEL E44/46	Interaction with strong or short laser pulses I
A 4.1–4.4	Mon	10:30–12:30	Audimax	Electron Dynamics in Chiral Systems SYCS 1 (with MO)
A 5.1–5.6	Mon	10:30–12:00	DO24 1.101	Ultracold plasmas and Rydberg systems I (with Q)
A 6.1–6.8	Mon	10:30–12:30	BEBEL SR144	Clusters (with MO)
A 7.1–7.7	Mon	10:30–12:15	UDL HS2002	Flying/Stationary Qubit Conversion and Entanglement Generation SYQR 1 (with Q)
A 8.1–8.8	Mon	14:00–16:00	BEBEL E34	Ultra-cold atoms, ions and BEC II (with Q)
A 9.1–9.8	Mon	14:00–16:00	BEBEL E42	Precision spectroscopy of atoms and ions II (with Q)
A 10.1–10.7	Mon	14:00–16:00	BEBEL E44/46	Atomic systems in external fields
A 11.1–11.6	Mon	14:00–16:00	BEBEL HS213	Electron Dynamics in Chiral Systems SYCS 2 (with MO)
A 12.1–12.4	Mon	14:00–16:00	Audimax	Quantum Repeaters SYQR 2 (with Q)
A 13.1–13.6	Mon	14:00–15:30	DO24 1.101	Ultracold plasmas and Rydberg systems II (with Q)
A 14.1–14.28	Mon	16:30–18:30	Spree-Palais	Poster: Precision spectroscopy of atoms and ions (with Q)
A 15.1–15.19	Mon	16:30–18:30	Spree-Palais	Poster: Interaction with strong or short laser pulses
A 16.1–16.4	Tue	10:30–12:30	Audimax	Symposium SAMOP Dissertation-Prize 2014 SYAD (with Q, MO, P)
A 17.1–17.7	Tue	10:30–12:15	Kinosaal	Quantum Protocols and Gates SYQR 3 (with Q)
A 18.1–18.7	Tue	14:00–16:00	BEBEL E34	Interaction with strong or short laser pulses II
A 19.1–19.7	Tue	14:00–16:00	BEBEL E42	Photoionization
A 20.1–20.8	Tue	14:00–16:00	BEBEL E44/46	Ultra-cold plasmas and Rydberg systems III (with Q)
A 21.1–21.7	Tue	14:00–15:45	BEBEL SR140/142	Precision spectroscopy of atoms and ions III (with Q)
A 22.1–22.7	Tue	14:00–15:45	Kinosaal	Photon Sources for Quantum Networks SYQR 4 (with Q)
A 23.1–23.6	Tue	16:30–18:30	Spree-Palais	Poster: Atomic clusters (with MO)
A 24.1–24.3	Tue	16:30–18:30	Spree-Palais	Poster: Atomic systems in external fields
A 25.1–25.10	Tue	16:30–18:30	Spree-Palais	Poster: Electron scattering and recombination
A 26.1–26.6	Tue	16:30–18:30	Spree-Palais	Poster: Interaction of matter and collisions with ions
A 27.1–27.12	Tue	16:30–18:30	Spree-Palais	Poster: Photoionization
A 28.1–28.9	Tue	16:30–18:30	Spree-Palais	Poster: Ultra-cold plasmas and Rydberg systems (with Q)
A 29.1–29.7	Wed	14:00–16:00	UDL HS3038	Ultra-cold atoms, ions and BEC III (with Q)
A 30.1–30.7	Wed	14:00–16:00	BEBEL E42	Interaction with VUV and X-ray light I
A 31.1–31.4	Wed	14:00–16:00	Audimax	Fathoming Stellar Evolution with Laboratory Precision SYSE (with MS, Q, MO, EP)
A 32.1–32.4	Wed	14:00–16:00	Kinosaal	Awards Symposium I (SYAW 1)
A 33.1–33.2	Wed	16:30–17:30	Kinosaal	Awards Symposium II (SYAW 2)
A 34.1–34.31	Wed	16:30–18:30	Spree-Palais	Poster: Ultra-cold atoms, ions and BEC (with Q)
A 35.1–35.16	Wed	16:30–18:30	Spree-Palais	Poster: Interaction with VUV and X-ray light
A 36.1–36.8	Thu	10:30–12:30	BEBEL E34	Ultra-cold atoms, ions and BEC IV (with Q)
A 37.1–37.7	Thu	10:30–12:30	BEBEL E42	Electron scattering and recombination
A 38.1–38.7	Thu	10:30–12:30	BEBEL E44/46	Atomic clusters (with MO)

A 39.1–39.8	Thu	10:30–12:30	BEBEL SR140/142	Precision spectroscopy of atoms and ions IV (with Q)
A 40.1–40.8	Thu	14:00–16:00	BEBEL E34	Interaction with strong or short laser pulses III
A 41.1–41.7	Thu	14:00–16:00	BEBEL E42	Interaction with VUV and X-ray light II
A 42.1–42.6	Thu	14:00–15:30	DO26 208	Ultracold atoms and molecules I (with Q)
A 43.1–43.4	Thu	14:00–15:55	Audimax	Velocity map imaging - focusing on intra- and inter-atomic dynamics SYPS 1 (with jDPG)
A 44.1–44.7	Thu	14:00–16:00	DO24 1.101	Precision measurements and metrology I (with Q)
A 45.1–45.5	Thu	16:30–18:30	Audimax	Velocity map imaging - focusing on intra- and inter-atomic dynamics SYPS 2 (with jDPG)
A 46.1–46.6	Thu	16:30–18:00	BEBEL E34	Atomic collisions and ultracold plasmas
A 47.1–47.8	Thu	16:30–18:30	BEBEL E42	Attosecond physics
A 48.1–48.8	Thu	16:30–18:30	BEBEL SR140/142	Ultra-cold atoms, ions and BEC V (with Q)
A 49.1–49.6	Thu	16:30–18:30	DO24 1.101	Precision measurements and metrology II (with Q)
A 50.1–50.5	Fri	10:30–11:45	BEBEL E34	Ultra-cold atoms, ions and BEC VI (with Q)
A 51.1–51.6	Fri	10:30–12:00	BEBEL E42	Interaction with VUV and X-ray light III
A 52.1–52.4	Fri	10:30–12:30	Audimax	Characterization and control of complex quantum systems SYQS 1 (with Q, MO, MS, MP, AGjDPG)
A 53.1–53.7	Fri	10:30–12:30	DO24 1.101	Precision measurements and metrology III (with Q)
A 54.1–54.6	Fri	14:00–15:45	DO24 1.101	Precision measurements and metrology IV (with Q)
A 55.1–55.6	Fri	14:00–16:00	Audimax	Characterization and control of complex quantum systems SYQS 2 (with Q, MO, MS, MP, AGjDPG)
A 56.1–56.6	Fri	14:00–15:30	DO26 208	Ultracold atoms and molecules II (with Q)
A 57.1–57.6	Fri	16:30–18:15	DO24 1.101	Precision measurements and metrology V (with Q)
A 58.1–58.5	Fri	16:30–18:30	Audimax	Characterization and control of complex quantum systems SYQS 3 (with Q, MO, MS, MP, AGjDPG)

Annual General Meeting of the Atomic Physics Division

Thursday 13:15–14:00 BEBEL E44/46

- Bericht
- Wahl
- Verschiedenes