

Atomic Physics Division Fachverband Atomphysik (A)

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Overview of Invited Talks and Sessions

(lecture rooms V7.02, V47.02, V47.03, V57.03, V57.05, and V55.01; Poster.V)

Invited Talks

A 1.1	Mon	10:30–11:00	V55.01	Atoms and ions in intense ultrashort laser pulses: entering the relativistic regime — ●ALEJANDRO SAENZ
A 3.1	Mon	10:30–11:00	V47.03	Many-electron dynamics triggered by strong FEL pulse — ●ULF SAALMANN
A 3.2	Mon	11:00–11:30	V47.03	Ignition and dynamics of doped He nanodroplets in intense few-cycle IR pulses — SIVA KRISHNAN, LUTZ FECHNER, ROBERT MOSHAMMER, JOACHIM ULLRICH, FRANK STIENKEMEIER, ●MARCEL MUDRICH, ALEXEY MIKABERIDZE, ULF SAALMANN, JAN-MICHAEL ROST, CHRISTIAN PELTZ, THOMAS FENNEL
A 3.3	Mon	11:30–12:00	V47.03	Quantum and classical measures of molecular ultracold plasma dynamics — JONATHAN MORRISON, HOSSEIN SADEGHI, MARKUS SCHULZ-WEILING, DONALD KELLOWAY, NICOLAS SAQUET, ●EDWARD GRANT
A 11.1	Mon	16:30–17:00	V47.03	Tracing ultrafast light-induced dynamics in small organic molecules — ●ARTEM RUDENKO
A 11.2	Mon	17:00–17:30	V47.03	Rydberg atoms in strong laser fields — ●ULLI EICHMANN
A 12.1	Tue	10:30–11:00	V47.03	Two-color photoionization studies at XUV and X-ray Free Electron Lasers — ●MICHAEL MEYER
A 16.1	Tue	14:00–14:30	V7.02	Macroscopic Quantum Tunneling of Solitons in Bose-Einstein Condensates — ●LINCOLN D. CARR, JOSEPH A. GLICK
A 17.1	Tue	14:00–14:30	V55.01	Single-photon interference experiments with single ions — ●GABRIEL HÉTET, LUKAS SŁODICKA, NADIA ROCK, MARKUS HENNRICH, RAINER BLATT
A 18.1	Tue	14:00–14:30	V47.03	Ultrafast Quantum Photonics — ●ALFRED LEITENSTORFER
A 18.2	Tue	14:30–15:00	V47.03	Attosecond dynamics in laser-driver metal clusters — JOHANNES PASSIG, SERGEY ZHEREBTSOV, ROBERT IRSIG, SŁAWOMIR SKRUSZEWICZ, JOSEF TIGGESBÄUMKER, MATTHIAS KLING, KARL-HEINZ MEIWES-BROER, ●THOMAS FENNEL
A 30.1	Thu	10:30–11:00	V47.03	X-ray laser spectroscopy at the free-electron laser LCLS — ●JOSÉ R. CRESPO LÓPEZ-URRUTIA
A 30.2	Thu	11:00–11:30	V47.03	Test of fundamental physics with highly charged ions — ●Z. HARMAN, C. BEILMANN, J. R. CRESPO LÓPEZ-URRUTIA, S. STURM, V. YEROKHIN, J. ZATORSKI, K. BLAUM, J. ULLRICH, C. H. KEITEL
A 31.1	Thu	10:30–11:00	V57.05	Coulomb potential effect on the tunneling electron from molecules — ●JIAN WU, REINHARD DÖRNER
A 37.1	Thu	14:00–14:30	V57.05	X-ray magnetic circular dichroism spectroscopy of size-selected free cluster ions: spin coupling, orbital angular momentum quenching, and magnetic dopants — ●TOBIAS LAU
A 37.2	Thu	14:30–15:00	V57.05	Autoionization of clusters: Energy transfer vs. electron transfer — ●UWE HERGENHAHN
A 42.1	Fri	10:30–11:00	V57.03	Quantum reflection and matter-wave optics with helium atoms and molecules — ●WIELAND SCHÖLLKOPF
A 44.1	Fri	10:30–11:00	V57.05	Attosecond control and tracing of collective electron dynamics in nanoparticles — ●MATTHIAS KLING

Invited talks of the joint symposium SYRA

See SYRA for the full program of the Symposium.

SYRA 1.1	Tue	10:30–11:00	V47.01	Quantum optics and quantum information with Rydberg excited atoms. — ●KLAUS MOLMER
SYRA 1.2	Tue	11:00–11:30	V47.01	Cooperative non-linear optics using Rydberg atoms — ●CHARLES ADAMS
SYRA 2.1	Tue	14:00–14:30	V47.01	Ultralong-range Rydberg molecules — ●THOMAS POHL
SYRA 2.2	Tue	14:30–15:00	V47.01	Quantum Information Processing with Rydberg Atoms — ●PHILIPPE GRANGIER

Invited talks of the joint symposium SYIB

See SYIB for the full program of the Symposium.

SYIB 1.1	Tue	10:30–11:00	V55.22	Nuclear physics with stored highly-charged radioactive ions — ●YURI LITVINOV
SYIB 1.2	Tue	11:00–11:30	V55.22	High Precision Laser Spectroscopy at the Storage Ring ESR — ●WILFRIED NÖRTERSCHÄUSER
SYIB 1.3	Tue	11:30–12:00	V55.22	Storage-ring measurements of hyperfine-induced one-photon transitions in highly charged ions — ●STEFAN SCHIPPERS
SYIB 1.4	Tue	12:00–12:30	V55.22	Low-Temperature Molecular Recombination from fast Electron and Ion Beams — ●OLDRICH NOVOTNY
SYIB 2.1	Tue	14:00–14:30	V55.22	Ion induced fragmentation of large (bio)molecules — ●THOMAS SCHLATHÖLTER
SYIB 2.2	Tue	14:30–15:00	V55.22	Using femtosecond lasers for determining the structure and dynamics of complex molecules — ●JASON GREENWOOD
SYIB 2.3	Tue	15:00–15:30	V55.22	Fast beam momentum spectroscopy on XUV excited molecular ions — ●HENRIK PEDERSEN
SYIB 2.4	Tue	15:30–16:00	V55.22	Electron Emission from Hot Stored Molecular and Cluster Anions — ●MICHAEL LANGE, KLAUS BLAUM, CHRISTIAN BREITENFELDT, MICHAEL FROESE, SEBASTIAN MENK, ANDREAS WOLF, SWARUP DAS, MANAS MUKHERJEE

Invited talks of the joint symposium SYPC

See SYPC for the full program of the Symposium.

SYPC 1.1	Thu	10:30–11:00	V47.01	Quantum Communication: real-world applications and academic research — ●NICOLAS GISIN
SYPC 1.2	Thu	11:00–11:30	V47.01	Trapping and Interfacing Cold Neutral Atoms Using Optical Nanofibers — ●ARNO RAUSCHENBEUTEL
SYPC 2.1	Thu	14:00–14:30	V47.01	Coherent population trapping in quantum dot molecules — KATHARINA WEISS, JEROEN ELZERMAN, ●ATAC IMAMOGLU
SYPC 2.2	Thu	14:30–15:00	V47.01	Nanophotonic Interconnection Networks for Performance-Energy Optimized Computing — ●KEREN BERGMAN

Invited talks of the joint symposium SYQM

See SYQM for the full program of the Symposium.

SYQM 1.1	Fri	10:30–11:00	V47.01	Overview of some recent "atomic-physics" experiments with nitrogen-vacancy centers in diamond — ●DMITRY BUDKER
SYQM 1.2	Fri	11:00–11:30	V47.01	Quantum Limits and Quantum Enhancement in Magnetometry — FEDERICA BEDUINI, NAEIMEH BEHBOOD, YANNICK DE ICAZA, BRICE DUBOST, MARCO KOSCHORRECK, MARIO NAPOLITANO, ANA PREDOJEVIC, ROBERT SEWELL, FLORIAN WOLFGAMM, ●MORGAN MITCHELL
SYQM 2.1	Fri	14:00–14:30	V47.01	Nanoscale magnetic resonance imaging: Progress and challenges — ●DANIEL RUGAR

SYQM 2.2 Fri 14:30–15:00 V47.01 **Optical Far-Field Addressing of Single Spins Beyond the Diffraction Limit at Enhanced Collection Efficiency** — •DOMINIK WILDANGER, JERO MAZE, BENNO KOBERSTEIN-SCHWARZ, JAN MEIJER, SÉBASTIEN PEZZAGNA, BRIAN PATTON, JASON SMITH, STEFAN HELL

Sessions

A 1.1–1.7	Mon	10:30–12:30	V55.01	Interaction with strong or short laser pulses I
A 2.1–2.7	Mon	10:30–12:15	V57.05	Atomic systems in external fields I
A 3.1–3.3	Mon	10:30–12:00	V47.03	Correlation dynamics in plasmas and clusters I
A 4.1–4.8	Mon	10:30–12:30	V47.02	Präzisionsmessungen und Metrologie 1
A 5.1–5.4	Mon	14:00–16:00	V47.01	SAMOP Dissertation Prize Symposium
A 6.1–6.6	Mon	14:00–16:15	V57.01	Correlation dynamics in plasmas and clusters II
A 7.1–7.10	Mon	16:30–19:00	V7.03	Präzisionsmessungen und Metrologie 3
A 8.1–8.10	Mon	16:30–19:00	V7.02	Kalte Atome: Fallen und Kühlung
A 9.1–9.6	Mon	16:30–18:00	V57.05	Electron scattering and recombination
A 10.1–10.8	Mon	16:30–18:30	V55.01	Interaction with strong or short laser pulses II
A 11.1–11.8	Mon	16:30–19:00	V47.03	Interaction with VUV and X-ray light I
A 12.1–12.7	Tue	10:30–12:30	V47.03	Interaction with strong or short laser pulses III
A 13.1–13.7	Tue	10:30–12:15	V55.01	Photoionization
A 14.1–14.8	Tue	10:30–12:30	V57.05	Interaction with VUV and X-ray light II
A 15.1–15.6	Tue	10:30–12:30	V47.01	SYRA 1: Ultracold Rydberg Atoms and Molecules 1
A 16.1–16.7	Tue	14:00–16:00	V7.02	Ultra-cold atoms, ions and BEC I
A 17.1–17.7	Tue	14:00–16:00	V55.01	Precision spectroscopy of atoms and ions I
A 18.1–18.6	Tue	14:00–16:00	V47.03	Attosecond physics I
A 19.1–19.5	Tue	14:00–15:15	V57.05	Atomic systems in external fields II
A 20.1–20.6	Tue	14:00–16:00	V47.01	SYRA 2: Ultracold Rydberg Atoms and Molecules 2
A 21.1–21.22	Tue	16:30–19:00	Poster.V	Poster: Precision spectroscopy of atoms and ions
A 22.1–22.16	Tue	16:30–19:00	Poster.V	Poster: Interaction with strong or short laser pulses
A 23.1–23.6	Tue	16:30–19:00	Poster.V	Poster: Electron scattering and recombination
A 24.1–24.15	Wed	16:30–19:00	Poster.V	Poster: Interaction with VUV and X-ray light
A 25.1–25.4	Wed	16:30–19:00	Poster.V	Poster: Attosecond physics
A 26.1–26.16	Wed	16:30–19:00	Poster.V	Poster: Atomic systems in external fields
A 27.1–27.7	Wed	16:30–19:00	Poster.V	Poster: Photoionization
A 28.1–28.7	Wed	16:30–19:00	Poster.V	Poster: Interaction of matter with ions
A 29.1–29.8	Thu	10:30–12:30	V47.02	Ultra-cold atoms, ions and BEC II
A 30.1–30.6	Thu	10:30–12:30	V47.03	Precision spectroscopy of atoms and ions II
A 31.1–31.7	Thu	10:30–12:30	V57.05	Interaction with strong or short laser pulses IV
A 32.1–32.6	Thu	10:30–12:30	V47.01	SYPC 1: From Atoms to Photonic Circuits 1
A 33.1–33.10	Thu	10:30–13:00	V7.03	SYRA 3: Ultracold Rydberg Atoms and Molecules 3
A 34.1–34.8	Thu	14:00–16:00	V7.03	Kalte Atome: Manipulation und Detektion
A 35.1–35.8	Thu	14:00–16:00	V47.02	Ultra-cold atoms, ions and BEC III
A 36.1–36.8	Thu	14:00–16:00	V47.03	Precision spectroscopy of atoms and ions III
A 37.1–37.6	Thu	14:00–16:00	V57.05	Atomic clusters
A 38.1–38.6	Thu	14:00–16:00	V47.01	SYPC 2: From Atoms to Photonic Circuits 2
A 39.1–39.8	Thu	16:30–19:00	Poster.V	Poster: Atomic clusters
A 40.1–40.34	Thu	16:30–19:00	Poster.V	Poster: Ultra-cold atoms, ions and BEC
A 41.1–41.11	Thu	16:30–19:00	Poster.V	Poster: Ultra-cold plasmas and Rydberg systems
A 42.1–42.7	Fri	10:30–12:30	V57.03	Ultra-cold atoms, ions and BEC IV
A 43.1–43.7	Fri	10:30–12:15	V47.03	Precision spectroscopy of atoms and ions IV
A 44.1–44.7	Fri	10:30–12:30	V57.05	Attosecond physics II
A 45.1–45.7	Fri	10:30–12:30	V7.02	Kalte Atome
A 46.1–46.6	Fri	10:30–12:00	V38.02	Cluster
A 47.1–47.8	Fri	10:30–12:30	V47.02	SYPC 3: From Atoms to Photonic Circuits 3
A 48.1–48.7	Fri	10:30–12:45	V47.01	SYQM 1: Quantum limited measurement applications 1
A 49.1–49.6	Fri	14:00–15:30	V57.03	Ultra-cold plasmas and Rydberg systems
A 50.1–50.6	Fri	14:00–15:30	V57.05	Interaction of matter with ions
A 51.1–51.8	Fri	14:00–16:00	V53.01	Materiewellenoptik
A 52.1–52.7	Fri	14:00–16:15	V47.01	SYQM 2: Quantum limited measurement applications 2

Mitgliederversammlung Fachverband Atomphysik

Donnerstag 13:30–14:00 Raum: V57.05

- Bericht
- Wahl
- Verschiedenes