

Atomic Physics Division Fachverband Atomphysik (A)

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Overview of Invited Talks and Sessions

(Lecture Rooms B 302, B 305, and F 428; Poster Empore Lichthof)

Invited Talks

A 1.1	Mon	11:00–11:30	B 305	Dynamics of Ultra-cold Atoms in Optical Lattices — ●SANDRO WIMBERGER
A 5.1	Mon	14:00–14:30	B 305	Taming light waves: Attosecond triggering and clocking of electronic processes — ●ELEFThERIOS GOULIELMAKIS
A 9.1	Mon	16:30–17:00	B 305	Attosecond physics at a nanoscale metal tip — ●PETER HOMMELHOFF, MICHAEL KRÜGER, MICHAEL FÖRSTER, SEBASTIAN THOMAS, LOTHAR MAISENBACHER, PETER DOMBI, JOHANNES HOFFFROGGE, JAKOB HAMMER, DOMINIK EHBERGER, JOHN BREUER, GEORG WACHTER, CHRISTOPH LEMELL, JOACHIM BURGDÖRFER
A 11.1	Mon	16:30–17:00	B 302	Spectra of cold molecular ions from hot helium nanodroplets — ●MARCEL DRABBELS
A 15.1	Tue	11:00–11:30	B 305	X-ray laser spectroscopy with trapped highly charged ions — ●SVEN BERNITT
A 17.1	Tue	14:00–14:30	B 302	Ultrafast dynamics in molecular systems and clusters — ●MARIA KRIKUNOVA, THEOPHILOS MALTEZOPOULOS, PHILIPP WESSELS, ULRIKE FRÜHLING, MAREK WIELAND, MARKUS DRESCHER, ALAA AL-SHEMMARY, NIKOLA STOJANOVIC, MARIA MÜLLER, JAN P. MÜLLER, BERND SCHÜTTE, THOMAS MÖLLER
A 18.1	Tue	14:00–14:30	B 305	Der g-Faktor des gebundenen Elektrons - Test des Standardmodells und Zugang zu fundamentalen Konstanten — ●SVEN STURM, FLORIAN KÖHLER, ANKE WAGNER, ZOLTAN HARMAN, JACEK ZATORSKI, WOLFGANG QUINT, GÜNTER WERTH, CHRISTOPH H. KEITEL, KLAUS BLAUM
A 26.1	Wed	14:00–14:30	B 302	Dipolar Physics with Ultracold Atomic Magnets — ●FERLAINO FRANCESCA
A 34.1	Thu	14:00–14:30	B 302	Interatomic Coulombic decay following electronic excitations — ●KIRILL GOKHBERG
A 36.1	Thu	14:00–14:30	F 428	Size selective vibrational spectroscopy of strongly bound neutral clusters — ●ANDRE FIELICKE
A 43.1	Fri	11:00–11:30	B 305	Accurate, stable, transportable: lattice clocks at PTB — ●CHRISTIAN LISDAT, STEPHAN FALKE, NATHAN LEMKE, THOMAS MIDDELMANN, STEFAN VOGT, SEBASTIAN HÄFNER, UWE STERR
A 45.1	Fri	11:00–11:30	B 302	Attosecond time-resolved high-resolution spectroscopy of two-electron dynamics in helium, and impulsive control of light — ●THOMAS PFEIFER

Invited talks of the joint symposium SYQG

See SYQG for the full program of the symposium.

SYQG 1.1	Tue	11:00–11:30	E 415	Does time exist in quantum gravity? — ●CLAUS KIEFER
SYQG 1.2	Tue	11:30–12:00	E 415	How Attractive is the Moon for Relativity? — ●JÜRGEN MÜLLER, LILIANE BISKUPEK, ENRICO MAI, FRANZ HOFMANN
SYQG 1.3	Tue	12:00–12:30	E 415	Interferometry with Bose-Einstein condensates in microgravity — ●ERNST RASEL

SYQG 1.4 Tue 12:30–13:00 E 415 **Relativistic effects in atom and neutron interferometry** — ●WOLFGANG SCHLEICH

Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1 Wed 11:00–11:30 E 415 **Photonic Quantum Computing** — ●STEFANIE BARZ
 SYAD 1.2 Wed 11:30–12:00 E 415 **Comparative Studies on some Blackcurrant Odorants and Fruit Esters using a Combination of Microwave Spectroscopy and Quantum Chemical Calculations** — ●HALIMA MOUHIB
 SYAD 1.3 Wed 12:00–12:30 E 415 **The Standard Model under Extreme Conditions: The g -Factor of Highly Charged Ions** — ●SVEN STURM
 SYAD 1.4 Wed 12:30–13:00 E 415 **Entanglement and Interference of Identical Particles** — ●MALTE CHRISTOPHER TICHY

Invited talks of the joint symposium SYUD

See SYUD for the full program of the symposium.

SYUD 1.1 Wed 14:00–14:30 E 415 **Electron emission from nanospheres in strong, few-cycle laser fields** — ●MATTHIAS KLING, FREDERIK SÜSSMANN, SERGEY ZHEREBTSOV, JOHANNES STIERLE, JÜRGEN PLENKE, ECKART RÜHL, LENNART SEIFERT, THOMAS FENNEL
 SYUD 1.2 Wed 14:30–15:00 E 415 **Ultrafast dynamics of gas-phase anions** — ●JAN R. R. VERLET
 SYUD 1.3 Wed 15:00–15:30 E 415 **Attosecond Larmor Clock for Ionization** — ●OLGA SMIRNOVA, JIVESH KAUSHAL, INGO BARTH, MISHA IVANOV
 SYUD 1.4 Wed 15:30–16:00 E 415 **Clusters in intense x-ray pulses** — ●CHRISTOPH BOSTEDT

Invited talks of the joint symposium SYCD

See SYCD for the full program of the symposium.

SYCD 1.1 Thu 11:00–11:30 E 415 **Ultralong range ICD in the He dimer, resonant Auger - ICD cascade processes** — ●TILL JAHNKE
 SYCD 1.2 Thu 11:30–12:00 E 415 **Inter-atomic Coulombic decay in endohedral fullerenes** — NARGES BAHMANPOUR, ●VITALI AVERBUKH
 SYCD 1.3 Thu 12:00–12:30 E 415 **ICD-like decays in aqueous electrolytes** — ●GUNNAR ÖHRWALL, NIKLAS OTTOSSON, OLLE BJÖRNEHOLM
 SYCD 1.4 Thu 12:30–13:00 E 415 **Intermolecular Coulomb decay at heterogeneous interfaces** — ●THOMAS ORLANDO, GREGORY GRIEVES

Invited talks of the joint symposium SYMS

See SYMS for the full program of the symposium.

SYMS 1.1 Fri 11:00–11:30 E 415 **MS for environmental and radiochemical applications** — ●CLEMENS WALTHER
 SYMS 1.2 Fri 11:30–12:00 E 415 **Modern nuclear mass models** — ●STEPHANE GORIELY
 SYMS 1.3 Fri 12:00–12:30 E 415 **High-accuracy mass measurements for nuclear astrophysics** — ●SUSANNE KREIM
 SYMS 1.4 Fri 12:30–13:00 E 415 **Storage ring mass and lifetime measurements** — ●FRITZ BOSCH
 SYMS 2.1 Fri 14:00–14:30 E 415 **Search for resonant double-electron capture** — ●SERGEY ELISEEV, KLAUS BLAUM, MICHAEL BLOCK, CHRISTIAN DROESE, DMITRIY NESTERENKO, YURI NOVIKOV, ENRIQUE MINAYA RAMIREZ, CHRISTIAN ROUX, LUTZ SCHWEIKHARD, KAY ZUBER
 SYMS 2.2 Fri 14:30–15:00 E 415 **Towards accurate T-3He Q-value** — ●TOMMI ERONEN, MARTIN HÖCKER, JOCHEN KETTER, SEBASTIAN STREUBEL, ROBERT S. VAN DYCK, KLAUS BLAUM
 SYMS 2.3 Fri 15:00–15:30 E 415 **The Avogadro constant and a new definition of the kilogram** — ●PETER BECKER

SYMS 2.4	Fri	15:30–16:00	E 415	Dating human DNA with the ^{14}C bomb peak — •WALTER KUTSCHERA, JAKOB LIEBL, PETER STEIER
SYMS 2.5	Fri	16:00–16:30	E 415	Resonance ionization mass spectrometry — •KLAUS WENDT

Sessions

A 1.1–1.5	Mon	11:00–12:30	B 305	Ultra-cold atoms, ions and BEC I (with Q)
A 2.1–2.6	Mon	11:00–12:30	B 302	Precision spectroscopy of atoms and ions I (with Q)
A 3.1–3.5	Mon	11:00–12:30	F 128	Precision measurements and metrology I (with Q)
A 4.1–4.7	Mon	11:00–12:45	F 102	Cluster (with MO)
A 5.1–5.6	Mon	14:00–15:45	B 305	Attosecond physics
A 6.1–6.8	Mon	14:00–16:00	F 428	Ultra-cold atoms, ions and BEC II (with Q)
A 7.1–7.8	Mon	14:00–16:00	B 302	Interaction with VUV and X-ray light I
A 8.1–8.6	Mon	14:00–15:45	F 128	Precision measurements and metrology II (with Q)
A 9.1–9.7	Mon	16:30–18:30	B 305	Interaction with strong or short laser pulses I
A 10.1–10.6	Mon	16:30–18:00	F 428	Precision spectroscopy of atoms and ions II (with Q)
A 11.1–11.7	Mon	16:30–18:30	B 302	Atomic clusters I (with MO)
A 12.1–12.8	Mon	16:30–18:45	E 415	Ultracold plasmas and Rydberg atoms (with Q)
A 13.1–13.4	Tue	11:00–13:00	E 415	Quantum meets gravity and metrology I
A 14.1–14.6	Tue	11:00–12:30	B 302	Ultra-cold atoms, ions and BEC III (with Q)
A 15.1–15.5	Tue	11:00–12:30	B 305	Precision spectroscopy of atoms and ions III (with Q)
A 16.1–16.6	Tue	11:00–12:30	F 428	Photoionization
A 17.1–17.7	Tue	14:00–16:00	B 302	Interaction with strong or short laser pulses II
A 18.1–18.7	Tue	14:00–16:00	B 305	Precision spectroscopy of atoms and ions IV (with Q)
A 19.1–19.8	Tue	14:00–16:00	F 428	Interaction with VUV and X-ray light II
A 20.1–20.24	Tue	16:00–18:30	Empore Lichthof	Poster: Precision spectroscopy of atoms and ions (with Q)
A 21.1–21.6	Tue	16:00–18:30	Empore Lichthof	Poster: Photoionization
A 22.1–22.15	Tue	16:00–18:30	Empore Lichthof	Poster: Interaction with strong or short laser pulses
A 23.1–23.4	Wed	11:00–13:00	E 415	Dissertation Prize Symposium
A 24.1–24.6	Wed	11:00–12:30	F 428	Ultra-cold atoms, ions and BEC IV (with Q)
A 25.1–25.6	Wed	11:00–12:30	B 302	Precision spectroscopy of atoms and ions V (with Q)
A 26.1–26.7	Wed	14:00–16:00	B 302	Ultra-cold atoms, ions and BEC V (with Q)
A 27.1–27.4	Wed	14:00–16:00	E 415	Visualizing Ultrafast Dynamics in atoms, molecules, and clusters
A 28.1–28.7	Wed	14:00–16:00	E 001	Precision measurements and metrology III (with Q)
A 29.1–29.27	Wed	16:00–18:30	Empore Lichthof	Poster: Ultra-cold atoms, ions and BEC (with Q)
A 30.1–30.13	Wed	16:00–18:30	Empore Lichthof	Poster: Interaction with VUV and X-ray light
A 31.1–31.4	Thu	11:00–13:00	E 415	Interatomic and Intermolecular Coulombic Decay
A 32.1–32.6	Thu	11:00–12:30	B 305	Ultra-cold atoms, ions and BEC VI (with Q)
A 33.1–33.6	Thu	11:00–12:30	B 302	Interaction with strong or short laser pulses III
A 34.1–34.5	Thu	14:00–15:30	B 302	SYCD Interatomic and intermolecular Coulombic decay (contributed for SYCD in A, MO)
A 35.1–35.8	Thu	14:00–16:00	B 305	Ultra-cold atoms, ions and BEC VII (with Q)
A 36.1–36.5	Thu	14:00–15:30	F 428	Atomic clusters II (with MO)
A 37.1–37.7	Thu	14:00–16:00	F 128	Precision measurements and metrology IV (with Q)
A 38.1–38.8	Thu	16:00–18:30	Empore Lichthof	Poster: Atomic clusters (with MO)
A 39.1–39.13	Thu	16:00–18:30	Empore Lichthof	Poster: Atomic systems in external fields
A 40.1–40.10	Thu	16:00–18:30	Empore Lichthof	Poster: Ultra-cold plasmas and Rydberg systems (with Q)
A 41.1–41.9	Thu	16:00–18:30	Empore Lichthof	Poster: Electron scattering and recombination
A 42.1–42.4	Thu	16:00–18:30	Empore Lichthof	Poster: Attosecond physics
A 43.1–43.5	Fri	11:00–12:30	B 305	Precision spectroscopy of atoms and ions VI (with Q)
A 44.1–44.4	Fri	11:00–13:00	E 415	100 Years of Mass Spectrometry 1
A 45.1–45.5	Fri	11:00–12:30	B 302	Atomic systems in external fields I
A 46.1–46.6	Fri	11:00–12:30	F 428	Ultra-cold plasmas and Rydberg systems (with Q)
A 47.1–47.6	Fri	11:00–12:30	E 001	Precision measurements and metrology V (with Q)
A 48.1–48.6	Fri	11:00–12:30	F 142	Ultracold atoms: Manipulation and detection (with Q)
A 49.1–49.5	Fri	14:00–16:30	E 415	100 Years of Mass Spectrometry 2
A 50.1–50.7	Fri	14:00–15:45	B 302	Atomic systems in external fields II

A 51.1–51.7 Fri 14:00–15:45 E 001

Precision measurements and metrology VI (with Q)

Annual General Meeting of the Atomic Physics Division

Donnerstag 13:30–14:00 B 305

- Bericht
- Wahl
- Verschiedenes