

## Quantum Optics and Photonics Division Fachverband Quantenoptik und Photonik (Q)

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### Overview of Invited Talks and Sessions

(Lecture rooms P 2, 3, 4, 5, 11, 104, and 204; Poster P 1.0G)

#### Invited talks of the joint symposium SYDD

See SYDD for the full program of the symposium.

SYDD 1.1	Mon	14:30–15:00	P 1	<b>Controlling (?) Quantum Dynamics with Open Systems</b> — •DIETER MESCHEDÉ
SYDD 1.2	Mon	15:00–15:30	P 1	<b>Many-body physics of driven, open quantum systems: optically driven Rydberg gases</b> — •MICHAEL FLEISCHHAUER
SYDD 1.3	Mon	15:30–16:00	P 1	<b>Theorie getriebener dissipativer Quantensysteme / theory of driven dissipative quantum systems</b> — •TOBIAS BRANDES
SYDD 1.4	Mon	16:00–16:30	P 1	<b>Calorimetry of a Bose-Einstein-condensed photon gas</b> — •MARTIN WEITZ

#### Invited talks of the joint symposium SYAP

See SYAP for the full program of the symposium.

SYAP 1.1	Tue	11:00–11:30	P 1	<b>Electrons and ions meet ultracold atoms</b> — •HERWIG OTT
SYAP 1.2	Tue	11:30–12:00	P 1	<b>Interrogating strongly bound electrons about fundamental physics</b> — •JOSÉ R. CRESO LÓPEZ-URRUTIA
SYAP 1.3	Tue	12:00–12:30	P 1	<b>Strong-field effects in heavy-ion collisions</b> — •ANDREY SURZHYKOV, VLADIMIR YEROKHIN, THOMAS STÖHLKER, STEPHAN FRITZSCHE
SYAP 1.4	Tue	12:30–13:00	P 1	<b>Laser-based high photon flux XUV sources and applications in atomic physics</b> — •JAN ROTHARDT, ROBERT KLAS, STEFAN DEMMLER, MAXIM TSCHERNAJEV, JENS LIMPERS, ANDREAS TÜNNERMANN

#### Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1	Wed	11:00–11:30	RW 1	<b>Exciton transport in disordered organic systems</b> — •FRANZISKA FENNEL
SYAD 1.2	Wed	11:30–12:00	RW 1	<b>Quantum dynamics in strongly correlated one-dimensional Bose gases</b> — •FLORIAN MEINERT
SYAD 1.3	Wed	12:00–12:30	RW 1	<b>Dynamics and correlations of a Bose-Einstein condensate of light</b> — •JULIAN SCHMITT
SYAD 1.4	Wed	12:30–13:00	RW 1	<b>Circular dichroism and accumulative polarimetry of chiral femtochemistry</b> — •ANDREAS STEINBACHER

#### Invited talks of the joint symposium SYAM

See SYAM for the full program of the symposium.

SYAM 1.1	Thu	11:00–11:30	P 1	<b>Buffer gas cooling of antiprotonic helium to T=1.5-1.7 K, and the antiproton to electron mass ratio</b> — •MASAKI HORI
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SYAM 1.2	Thu	11:30–12:00	P 1	<b>The BASE Experiment: High-precision comparisons of the fundamental properties of protons and antiprotons</b> — ●C. SMORRA, M. BESIRLI, K. BLAUM, M. BOHMAN, M. J. BORCHERT, J. HARRINGTON, T. HIGUCHI, H. NAGAHAMA, Y. MATSUDA, A. MOOSER, C. OSPELKAUS, W. QUINT, S. SELNER, G. SCHNEIDER, N. SCHOEN, T. TANAKA, J. WALZ, Y. YAMAZAKI, S. ULMER
SYAM 1.3	Thu	12:00–12:30	P 1	<b>Antihydrogen physics at the ALPHA experiment</b> — ●NIELS MADSEN
SYAM 2.1	Thu	14:30–15:00	P 1	<b>Muon g-2</b> — ●KLAUS JUNGMANN
SYAM 2.2	Thu	15:00–15:30	P 1	<b>Antihydrogen physics at ASACUSA and AEGIS</b> — ●CHLOÉ MALBRUNOT
SYAM 2.3	Thu	15:30–16:00	P 1	<b>An experiment to measure the anti-hydrogen Lamb shift</b> — ●PAOLO CRIVELLI

## Invited talks of the joint symposium SYLG

See SYLG for the full program of the symposium.

SYLG 1.1	Fri	11:00–11:30	P 1	<b>Quantum Simulation of Lattice Gauge Theories with Cold Atoms and Ions</b> — ●PETER ZOLLER
SYLG 1.2	Fri	11:30–12:00	P 1	<b>Quantum Simulations with Cold Trapped Ions</b> — ESTEBAN A. MARTINEZ, CHRISTINE A. MUSCHIK, PHILIPP SCHINDLER, DANIEL NIGG, ALEXANDER ERHARD, MARKUS HEYL, PHILIPP HAUKE, MARCELLO DALMONTE, THOMAS MONZ, PETER ZOLLER, ●RAINER BLATT
SYLG 1.3	Fri	12:00–12:30	P 1	<b>Studies of hot and dense nuclear matter at the Large Hadron Collider</b> — ●BOLESŁAW WYSŁOUCH
SYLG 1.4	Fri	12:30–13:00	P 1	<b>Lattice gauge theory beyond QCD</b> — ●CLAUDIO PICA

## Sessions

Q 1.1–1.6	Mon	14:30–16:30	P 2	<b>Quantum Information: Concepts and Methods I</b>
Q 2.1–2.8	Mon	14:30–16:45	P 3	<b>Quantum Communication I</b>
Q 3.1–3.7	Mon	14:30–16:15	P 4	<b>Quantum Effects: QED I</b>
Q 4.1–4.6	Mon	14:30–16:15	P 5	<b>Quantum Optics I</b>
Q 5.1–5.7	Mon	14:30–16:30	P 104	<b>Precision Measurements and Metrology: Gravity</b>
Q 6.1–6.8	Mon	14:30–16:30	P 204	<b>Quantum Gases: Bosons I</b>
Q 7.1–7.7	Mon	14:30–16:30	N 1	<b>Ultracold atoms and BEC - I (with A)</b>
Q 8.1–8.8	Mon	17:00–19:00	P 2	<b>Quantum Information: Concepts and Methods II</b>
Q 9.1–9.8	Mon	17:00–19:00	P 3	<b>Quantum Communication II</b>
Q 10.1–10.6	Mon	17:00–18:30	P 4	<b>Quantum Effects: QED II</b>
Q 11.1–11.7	Mon	17:00–18:45	P 5	<b>Quantum Optics II</b>
Q 12.1–12.8	Mon	17:00–19:00	P 11	<b>Nano-Optics I</b>
Q 13.1–13.8	Mon	17:00–19:00	P 104	<b>Precision Measurements and Metrology: Optical Clocks</b>
Q 14.1–14.8	Mon	17:00–19:00	P 204	<b>Quantum Gases: Bosons II</b>
Q 15.1–15.8	Mon	17:00–19:00	N 1	<b>Ultracold atoms and BEC - II (with A)</b>
Q 16.1–16.7	Tue	11:00–12:45	P 2	<b>Quantum Information: Concepts and Methods III</b>
Q 17.1–17.8	Tue	11:00–13:00	P 3	<b>Quantum Repeater and Quantum Communication</b>
Q 18.1–18.7	Tue	11:00–12:45	P 4	<b>Quantum Effects: Cavity QED I</b>
Q 19.1–19.6	Tue	11:00–12:30	P 5	<b>Quantum Optics III</b>
Q 20.1–20.8	Tue	11:00–13:00	P 11	<b>Nano-Optics II</b>
Q 21.1–21.8	Tue	11:00–13:00	P 104	<b>Precision Measurements and Metrology: Interferometry I</b>
Q 22.1–22.8	Tue	11:00–13:00	P 204	<b>Quantum Gases: Bosons III</b>
Q 23.1–23.8	Tue	14:30–16:30	P 2	<b>Quantum Information: Concepts and Methods IV</b>
Q 24.1–24.6	Tue	14:30–16:15	P 3	<b>Quantum Information: Solid State Systems I</b>
Q 25.1–25.7	Tue	14:30–16:15	P 4	<b>Quantum Effects: Cavity QED II</b>
Q 26.1–26.6	Tue	14:30–16:00	P 5	<b>Quantum Optics IV</b>
Q 27.1–27.8	Tue	14:30–16:30	P 11	<b>Nano-Optics III</b>
Q 28.1–28.9	Tue	14:30–16:45	P 104	<b>Precision Measurements and Metrology: Interferometry II</b>
Q 29.1–29.9	Tue	14:30–16:45	P 204	<b>Quantum Gases: Bosons IV</b>
Q 30.1–30.8	Tue	14:30–16:30	N 1	<b>Ultracold atoms and BEC - III (with A)</b>
Q 31.1–31.94	Tue	17:00–19:00	P OGS	<b>Poster: Quantum Optics and Photonics I</b>
Q 32.1–32.7	Wed	14:30–16:15	P 2	<b>Quantum Information: Concepts and Methods V</b>

Q 33.1–33.7	Wed	14:30–16:15	P 3	<b>Quantum Information: Solid State Systems II</b>
Q 34.1–34.8	Wed	14:30–16:45	P 4	<b>Quantum Effects: Entanglement and Decoherence</b>
Q 35.1–35.8	Wed	14:30–16:30	P 5	<b>Laser Development and Applications (Spectroscopy)</b>
Q 36.1–36.8	Wed	14:30–16:45	P 11	<b>Photonics I</b>
Q 37.1–37.8	Wed	14:30–16:45	P 104	<b>Ultracold Plasmas and Rydberg Systems</b>
Q 38.1–38.9	Wed	14:30–16:45	P 204	<b>Quantum Gases: Bosons V</b>
Q 39.1–39.8	Wed	14:30–16:30	N 1	<b>Ultracold atoms and BEC - IV (with A)</b>
Q 40.1–40.66	Wed	17:00–19:00	P OGS	<b>Poster: Quantum Optics and Photonics II</b>
Q 41.1–41.7	Thu	11:00–13:00	P 2	<b>Quantum Information: Concepts and Methods VI</b>
Q 42.1–42.8	Thu	11:00–13:00	P 4	<b>Quantum Effects</b>
Q 43.1–43.4	Thu	11:00–12:15	P 5	<b>Laser Applications: Optical Measurement Technology</b>
Q 44.1–44.8	Thu	11:00–13:00	P 11	<b>Photonics II</b>
Q 45.1–45.8	Thu	11:00–13:15	P 104	<b>Ultracold Plasmas, Rydberg Systems and Molecules</b>
Q 46.1–46.7	Thu	11:00–13:00	P 204	<b>Quantum Gases: Fermions I</b>
Q 47.1–47.6	Thu	14:30–16:15	P 2	<b>Quantum Computing I</b>
Q 48.1–48.5	Thu	14:30–15:45	P 4	<b>Optomechanics I</b>
Q 49.1–49.9	Thu	14:30–16:45	P 5	<b>Ultrashort Laser Pulses: Generation and Applications</b>
Q 50.1–50.6	Thu	14:30–16:00	P 11	<b>Matter Wave Optics</b>
Q 51.1–51.7	Thu	14:30–16:30	P 104	<b>Ultracold Atoms I</b>
Q 52.1–52.9	Thu	14:30–16:45	P 204	<b>Quantum Gases: Fermions II</b>
Q 53.1–53.86	Thu	17:00–19:00	P OGS	<b>Poster: Quantum Optics and Photonics III</b>
Q 54.1–54.8	Fri	11:00–13:00	N 1	<b>Ultracold atoms and BEC - V (with A)</b>
Q 55.1–55.7	Fri	14:30–16:15	P 2	<b>Quantum Computing II</b>
Q 56.1–56.5	Fri	14:30–15:45	P 4	<b>Optomechanics II</b>
Q 57.1–57.8	Fri	14:30–16:30	P 104	<b>Ultracold Atoms II</b>
Q 58.1–58.8	Fri	14:30–16:30	P 204	<b>Quantum Gases: Fermions III</b>
Q 59.1–59.5	Fri	14:30–16:00	N 1	<b>Ultracold atoms and BEC - VI (with A)</b>

## Annual General Meeting of the Quantum Optics and Photonics Division

Tuesday 13:15–14:00 P 2