

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

Vahid Sandoghdar
Max Planck Institute for the Science of Light
Günther-Scharowsky-Str. 1
91058 Erlangen
vahid.sandoghdar@mpl.mpg.de

Overview of Invited Talks and Sessions

(Lecture rooms: P/H1, P/H2, C/gHs, C/HSO, B/gHS, B/SR, K/HS1 K/HS2; Poster: C/Foyer)

Invited talks of the joint symposium “Efimov Physics”

See SYEP for the full program of the symposium.

SYEP 1.1	Mon	11:30–12:00	C/gHS	Few-body physics with ultracold atoms: What we learned from cesium — ●RUDOLF GRIMM
SYEP 1.2	Mon	12:00–12:30	C/gHS	Universality in halo nuclei — ●DANIEL PHILLIPS
SYEP 2.1	Mon	14:30–15:00	C/gHS	Efimov Physics from Quantum Field Theory — ●ERIC BRAATEN
SYEP 2.2	Mon	15:00–15:30	C/gHS	Efimov physics with multiple spin substates — ●CHRIS H GREENE

Invited talks of the joint symposium “Dipole Moments - A Tool to Search for New Physics”

See SYDM for the full program of the symposium.

SYDM 1.1	Tue	11:00–11:40	C/gHS	Searching for New Physics Effects in the Muon g-Factor — ●B. LEE ROBERTS
SYDM 1.2	Tue	11:40–12:20	C/gHS	Dedicated storage ring EDM methods — ●YANNIS SEMERTZIDIS
SYDM 2.1	Tue	14:30–15:10	C/gHS	The experimental search for the neutron electric dipole moment — ●KLAUS KIRCH
SYDM 2.2	Tue	15:10–15:50	C/gHS	The muon g-2: where we are, what does it tell us? — ●FRIEDRICH JEGERLEHNER

Invited talks of the joint symposium “Controlled Diatomic Molecules in the Ultracold Regime”

See SYPS for the full program of the symposium.

SYPS 1.1	Tue	17:00–17:30	K/HS1	Feshbach resonances and the production of ultracold molecules — ●JEREMY M. HUTSON
SYPS 1.2	Tue	17:30–18:00	K/HS1	New frontiers in quantum simulation with ultra-cold polar molecules — ●ANA MARIA REY
SYPS 1.3	Tue	18:15–18:45	K/HS1	Ground-state molecules near quantum degeneracy: the nuts and bolts — ●HANNES-CHRISTOPH NÄGERL
SYPS 1.4	Tue	18:45–19:15	K/HS1	Prospects and future directions with quantum gases of ultracold polar molecules — ●SILKE OSPELKAUS

Invited talks of the joint symposium “Extreme Matter: From Cold Atoms to the Quark Gluon Plasma”

See SYEM for the full program of the symposium.

SYEM 1.1	Wed	11:00–11:30	C/gHS	Generation of Structure under Extreme Conditions: Ultracold Atoms meet Heavy-Ion Collisions — ●JENS BRAUN
SYEM 1.2	Wed	11:30–12:00	C/gHS	Strongly Interacting Fermi Gases of Atoms and Molecules — ●MARTIN ZWIERLEIN

SYEM 1.3	Wed	12:00–12:30	C/gHS	Towards ultracold RbSr ground-state molecules — ●FLORIAN SCHRECK
SYEM 1.4	Wed	12:30–13:00	C/gHS	Multiflavor phenomena and synthetic gauge fields in strongly interacting quantum gases — ●WALTER HOFSTETTER

Prize talks of the awards symposium

See SYAW for the full program of the symposium.

SYAW 1.1	Wed	14:30–15:15	C/gHS	Warum einzelne kalte Atome? — ●PETER E. TOSCHEK
SYAW 1.2	Wed	15:15–16:00	C/gHS	Strongly interacting Rydberg gases in thermal vapor cells — ●TILMAN PFAU

Invited talks of the joint symposium “Interactions between Twisted Light and Particles”

See SYTL for the full program of the symposium.

SYTL 1.1	Fri	11:00–11:30	C/gHS	Optical curl forces and beyond — ●MICHAEL BERRY
SYTL 1.2	Fri	11:30–12:00	C/gHS	Quantum memories for twisted photons — ●ELISABETH GIACOBINO, JULIEN LAURAT, DOMINIK MAXEIN, LAMBERT GINER, LUCILE VEISSIER, ADRIEN NICOLAS
SYTL 2.1	Fri	14:30–15:00	C/gHS	Electron vortex beams: Twisted matter waves — ●PETER SCHATTSCHEIDER
SYTL 2.2	Fri	15:00–15:30	C/gHS	Inelastic effects on the lateral wave function of electron beams — ●JAVIER GARCÍA DE ABAJO

Sessions

Q 1.1–1.6	Mon	11:30–13:00	C/HSO	Quantum Optics I
Q 2.1–2.6	Mon	11:30–13:00	B/gHS	Quantum Effects: Entanglement and Decoherence I
Q 3.1–3.5	Mon	11:30–13:00	K/HS1	Quantum Information: Concepts and Methods I
Q 4.1–4.6	Mon	11:30–13:00	K/HS2	Quantum Gases: Fermions I
Q 5.1–5.6	Mon	11:30–13:00	P/H2	Quantum Gases: Bosons I
Q 6.1–6.7	Mon	11:30–13:15	C/HSW	Precision Spectroscopy of Atoms and Ions I (with A)
Q 7.1–7.5	Mon	11:30–12:45	G/gHS	Precision Measurements and Metrology I (with A)
Q 8.1–8.8	Mon	14:30–16:30	C/HSO	Quantum Optics II
Q 9.1–9.6	Mon	14:30–16:15	B/gHS	Quantum Information: Quantum Computation I
Q 10.1–10.7	Mon	14:30–16:30	K/HS1	Quantum Information: Concepts and Methods II
Q 11.1–11.7	Mon	14:30–16:30	K/HS2	Quantum Gases: Fermions II
Q 12.1–12.8	Mon	14:30–16:30	P/H2	Quantum Gases: Bosons II
Q 13.1–13.8	Mon	14:30–16:30	C/HSW	Ultracold Atoms, Ions and BEC I (with A)
Q 14.1–14.7	Mon	14:30–16:30	P/H1	Precision Measurements and Metrology II (with A)
Q 15.1–15.93	Mon	17:00–19:00	C/Foyer	Poster: Quantum Optics and Photonics I
Q 16.1–16.8	Tue	11:00–13:00	C/HSO	Quantum Optics III
Q 17.1–17.8	Tue	11:00–13:00	B/gHS	Quantum Effects: Entanglement and Decoherence II
Q 18.1–18.6	Tue	11:00–12:30	K/HS1	Quantum Information: Concepts and Methods III
Q 19.1–19.6	Tue	11:00–12:30	K/HS2	Quantum Gases: Fermions III
Q 20.1–20.5	Tue	11:00–12:15	P/H2	Quantum Gases: Bosons III
Q 21.1–21.8	Tue	11:00–13:15	M/HS1	Precision Spectroscopy of Atoms and Ions II (with A)
Q 22.1–22.6	Tue	11:00–12:45	G/gHS	Precision Measurements and Metrology III (with A)
Q 23.1–23.8	Tue	11:00–13:00	C/kHS	Ultracold Plasmas and Rydberg Systems I (with A)
Q 24.1–24.8	Tue	14:30–16:30	B/gHS	Quantum Effects: Entanglement and Decoherence III
Q 25.1–25.8	Tue	14:30–16:30	C/HSO	Quantum Information: Quantum Computation II
Q 26.1–26.8	Tue	14:30–16:30	K/HS1	Quantum Information: Concepts and Methods IV
Q 27.1–27.8	Tue	14:30–16:30	P/H2	Quantum Gases: Bosons IV
Q 28.1–28.8	Tue	14:30–16:30	C/HSW	Ultracold Atoms, Ions and BEC II (with A)
Q 29.1–29.8	Tue	14:30–16:30	P/H1	Precision Measurements and Metrology IV (with A)
Q 30.1–30.8	Tue	14:30–16:30	K/HS2	Laser Development: Solid State and Semiconductor Lasers
Q 31.1–31.74	Tue	17:00–19:00	C/Foyer	Poster: Quantum Optics and Photonics II
Q 32.1–32.35	Tue	17:00–19:00	C/Foyer	Poster: Ultracold Atoms, Ions and BEC (with A)

Q 33.1–33.6	Wed	11:00–12:30	B/gHS	Quantum Optics IV
Q 34.1–34.5	Wed	11:00–12:30	B/SR	Quantum Effects: QED I
Q 35.1–35.8	Wed	11:00–13:00	K/HS1	Quantum Information: Concepts and Methods V
Q 36.1–36.6	Wed	11:00–12:30	P/H2	Quantum Gases: Bosons V
Q 37.1–37.7	Wed	11:00–12:45	C/kHS	Ultracold Plasmas and Rydberg Systems II (with A)
Q 38.1–38.8	Wed	11:00–13:00	M/HS1	Ultracold Atoms, Ions and BEC III (with A)
Q 39.1–39.6	Wed	11:00–12:30	C/HSO	Precision Measurements and Metrology V (with A)
Q 40.1–40.7	Wed	11:00–12:45	K/HS2	Laser Development: Nonlinear Effects
Q 41.1–41.7	Wed	14:30–16:30	B/gHS	Nano-Optics I
Q 42.1–42.8	Wed	14:30–16:30	B/SR	Quantum Effects: QED II
Q 43.1–43.6	Wed	14:30–16:00	K/HS1	Quantum Information: Concepts and Methods VI
Q 44.1–44.7	Wed	14:30–16:30	P/H2	Quantum Gases: Miscellaneous
Q 45.1–45.8	Wed	14:30–16:30	C/HSW	Ultracold Atoms, Ions and BEC IV (with A)
Q 46.1–46.7	Wed	14:30–16:15	K/HS2	Laser Applications: Laser Spectroscopy
Q 47.1–47.4	Thu	11:00–12:45	C/HSO	Nano-Optics II
Q 48.1–48.8	Thu	11:00–13:00	P/H1	Optomechanics I
Q 49.1–49.7	Thu	11:00–13:00	B/gHS	Quantum Effects: Cavity QED I
Q 50.1–50.8	Thu	11:00–13:00	K/HS1	Quantum Information: Concepts and Methods VII
Q 51.1–51.5	Thu	11:00–12:30	P/H2	Ultracold Atoms: Trapping and Cooling I (with A)
Q 52.1–52.8	Thu	11:00–13:00	M/HS1	Precision Spectroscopy of Atoms and Ions III (with A)
Q 53.1–53.4	Thu	11:00–12:00	K/HS2	Ultrashort Laser Pulses I
Q 54.1–54.3	Thu	12:15–13:00	K/HS2	Laser Applications: Miscellaneous
Q 55	Thu	13:15–14:15	C/HSO	Annual General Meeting: Quantum Optics and Photonics
Q 56.1–56.7	Thu	14:30–16:15	C/HSO	Nano-Optics III
Q 57.1–57.8	Thu	14:30–16:30	P/H1	Optomechanics II
Q 58.1–58.5	Thu	14:30–15:45	B/gHS	Quantum Effects: Cavity QED II
Q 59.1–59.5	Thu	14:30–16:00	K/HS1	Quantum Information: Quantum Communication I
Q 60.1–60.7	Thu	14:30–16:15	P/H2	Ultracold Atoms: Trapping and Cooling II (with A)
Q 61.1–61.8	Thu	14:30–16:30	K/HS2	Ultrashort Laser Pulses II
Q 62.1–62.107	Thu	17:00–19:00	C/Foyer	Poster: Quantum Optics and Photonics III
Q 63.1–63.29	Thu	17:00–19:00	C/Foyer	Poster: Precision Spectroscopy of Atoms and Ions (with A)
Q 64.1–64.9	Thu	17:00–19:00	C/Foyer	Poster: Ultracold Plasmas and Rydberg Systems (with A)
Q 65.1–65.5	Fri	11:00–12:15	C/HSO	Nano-Optics IV
Q 66.1–66.5	Fri	11:00–12:30	B/gHS	Photonics I
Q 67.1–67.8	Fri	11:00–13:00	K/HS1	Quantum Information: Quantum Communication II
Q 68.1–68.6	Fri	11:00–12:45	K/HS2	Matter Wave Optics I
Q 69.1–69.8	Fri	11:00–13:00	B/SR	Ultracold Atoms and Molecules (with A)
Q 70.1–70.9	Fri	11:00–13:15	M/HS1	Ultracold Atoms, Ions and BEC V (with A)
Q 71.1–71.7	Fri	11:00–12:45	P/H2	Ultracold Plasmas and Rydberg Systems III (with A)
Q 72.1–72.8	Fri	11:00–13:00	C/kHS	Precision Spectroscopy of Atoms and Ions IV (with A)
Q 73.1–73.5	Fri	14:30–15:45	B/gHS	Photonics II
Q 74.1–74.6	Fri	14:30–16:00	K/HS1	Quantum Information: Quantum Communication III
Q 75.1–75.6	Fri	14:30–16:00	K/HS2	Matter Wave Optics II
Q 76.1–76.6	Fri	14:30–16:00	P/H2	Ultracold Plasmas and Rydberg Systems IV (with A)

Annual General Meeting of the Quantum Optics and Photonics Division

Thursday 13:15–14:15 C/HSO