

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

Vahid Sandoghdar
Max Planck Institute for the Science of Light and
Department of Physics, University of Erlangen-Nürnberg (FAU)
Günther-Scharowsky-Str. 1
91058 Erlangen
vahid.sandoghdar@mpl.mpg.de

Overview of Invited Talks and Sessions

(Lecture rooms a310, e001, e214, f342, and f442; Poster Empore Lichthof)

Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	11:00–11:30	e415	Artificial gauge fields and topology with ultracold atoms in optical lattices — ●MONIKA AIDELSBURGER
SYAD 1.2	Tue	11:30–12:00	e415	Many-body physics with impurities in ultracold quantum gases — ●FABIAN GRUSDITZ
SYAD 1.3	Tue	12:00–12:30	e415	How to determine the handedness of single molecules — ●MARTIN PITZER
SYAD 1.4	Tue	12:30–13:00	e415	Quantum systems under gravitational time dilation — ●MAGDALENA ZYCH

Invited talks of the joint symposium SYBO

See SYBO for the full program of the symposium.

SYBO 1.1	Thu	11:00–11:30	e415	Recent advances of Optical Coherence Tomography — ●WOLFGANG DREXLER
SYBO 1.2	Thu	11:30–12:00	e415	Vortex-beams for precise and gentle dissection in refractive corneal surgery — ●ALFRED VOGEL, SEBASTIAN FREIDANK, NORBERT LINZ
SYBO 1.3	Thu	12:00–12:30	e415	Structured Illumination and the Analysis of Single Molecules in Cells — ●RAINER HEINTZMANN
SYBO 1.4	Thu	12:30–13:00	e415	Biophotonics - a potential solution to unmet medical needs!? — ●JUERGEN POPP
SYBO 2.1	Thu	14:30–15:00	e415	Smart and multimodal light sheet microscopy — ●JAN HUISKEN
SYBO 2.2	Thu	15:00–15:30	e415	Laser Applications at the Cochlea: Imaging and Stimulation — ●ALEXANDER HEISTERKAMP, NICOLE KALLWEIT, PETER BAUMHOFF, ALEXANDER KRUEGER, NADINE TINNE, HEIKO MEYER, ANDREJ KRAL, HANNES MAIER, TAMMO RIPKEN
SYBO 2.3	Thu	15:30–16:00	e415	Sculpted light landscapes for optical micro-manipulation — CHRISTINA ALPMANN, ALVARO BARROSO PENA, EILEEN OTTE, KATHRIN DIECKMANN, ●CORNELIA DENZ
SYBO 2.4	Thu	16:00–16:30	e415	Optogenetics: Lighting Up the Brain — ●GERO MIESENBOECK

Invited talks of the joint symposium SYUL

See SYUL for the full program of the symposium.

SYUL 1.1	Fri	11:00–11:50	e415	Exawatt laser concepts for extreme field science — ●CHRIS BARTY
SYUL 1.2	Fri	11:50–12:20	e415	Generation of short pulses with ultra-high temporal contrast at the PHELIX petawatt facility — ●VINCENT BAGNOUD
SYUL 1.3	Fri	12:20–12:50	e415	Petawatt lasers for particle acceleration at HZDR Dresden — ●ULRICH SCHRAMM

SYUL 1.4	Fri	12:50–13:20	e415	High-intensity few-cycle pulses with ultrahigh temporal contrast — ●STEFAN KARSCH, ALEXANDER KESSEL, CHRISTOPH SKROBOL, MATHIAS KRÜGER, CHRISTOPH WANDT, SANDRO KLINGEBIEL, OLGA LYSOV, IZHAR AHMAD, SERGEI TRUSHIN, VYACHESLAV LESHCHENKO, ZSUZSANNA MAJOR, FERENC KRAUSZ
SYUL 2.1	Fri	14:00–14:30	e415	Coherent Combination of Ultrafast Fiber Lasers — ●JENS LIMPERT
SYUL 2.2	Fri	14:30–15:00	e415	Cryogenic multipass amplifiers for high peak and average power ultrafast lasers — ●LUIS E. ZAPATA
SYUL 2.3	Fri	15:00–15:30	e415	Multi-TW infrared laser using Frequency domain Optical Parametric Amplification — ●BRUNO E. SCHMIDT, PHILIPPE LASSONDE, GUILMOT ERNOTTE, MATHIEU GIGUERE, NICOLAS THIRE, ANTOINE LARAMEE, HEIDE IBRAHIM, FRANCOIS LEGARE

Sessions

Q 1.1–1.7	Mon	11:00–12:45	a310	Precision Measurements and Metrology I (with A)
Q 2.1–2.8	Mon	11:00–13:00	e001	Ultracold Atoms, Ions and Molecules I (with A)
Q 3.1–3.8	Mon	11:00–13:00	e214	Quantum Information: Concepts and Methods I
Q 4.1–4.7	Mon	11:00–12:45	f342	Photonics I
Q 5.1–5.8	Mon	11:00–13:00	f442	Quantum Optics I
Q 6.1–6.7	Mon	14:30–16:15	a310	Precision Measurements and Metrology II (with A)
Q 7.1–7.8	Mon	14:30–16:30	e001	Ultracold Atoms, Ions and Molecules II (with A)
Q 8.1–8.8	Mon	14:30–16:30	e214	Quantum Information: Concepts and Methods II
Q 9.1–9.7	Mon	14:30–16:15	f342	Photonics II
Q 10.1–10.8	Mon	14:30–16:30	f442	Quantum Optics II
Q 11.1–11.42	Mon	16:30–19:00	Empore Lichthof	Poster: Quantum Optics and Photonics I
Q 12.1–12.51	Mon	16:30–19:00	Empore Lichthof	Ultra-cold atoms, ions and BEC (with A)
Q 13.1–13.5	Mon	17:00–18:15	a310	Precision Measurements and Metrology III (with A)
Q 14.1–14.7	Mon	17:00–18:45	f303	Ultracold plasmas and Rydberg systems I (with A)
Q 15.1–15.5	Mon	17:00–18:15	f442	Quantum Effects: Disorder
Q 16.1–16.8	Tue	11:00–13:00	a310	Precision Measurements and Metrology IV (with A)
Q 17.1–17.7	Tue	11:00–13:00	e001	Quantum Gases: Bosons I
Q 18.1–18.8	Tue	11:00–13:00	e214	Quantum Information: Concepts and Methods III
Q 19.1–19.9	Tue	11:00–13:15	f342	Ultracold Atoms, Ions and Molecules III (with A)
Q 20.1–20.8	Tue	11:00–13:00	f442	Quantum Optics III
Q 21.1–21.8	Tue	14:30–16:30	a310	Matter Wave Optics
Q 22.1–22.8	Tue	14:30–16:30	e001	Quantum Gases: Bosons II
Q 23.1–23.8	Tue	14:30–16:30	e214	Quantum Information: Concepts and Methods IV
Q 24.1–24.8	Tue	14:30–16:30	f303	Ultracold plasmas and Rydberg systems II (with A)
Q 25.1–25.9	Tue	14:30–16:45	f342	Nano-Optics I
Q 26.1–26.6	Tue	14:30–16:00	f442	Quantum Optics IV
Q 27.1–27.64	Tue	16:30–19:00	Empore Lichthof	Poster: Quantum Optics and Photonics II
Q 28.1–28.8	Wed	11:00–13:00	a310	Laser Development I
Q 29.1–29.7	Wed	11:00–13:00	e001	Quantum Gases: Bosons III
Q 30.1–30.8	Wed	11:00–13:00	e214	Quantum Information: Concepts and Methods V
Q 31.1–31.8	Wed	11:00–13:00	f107	Ultra-cold atoms, ions and BEC I (with A)
Q 32.1–32.8	Wed	11:00–13:00	f342	Biophotonics
Q 33.1–33.8	Wed	11:00–13:00	f442	Quantum Effects: Entanglement and Decoherence I
Q 34	Wed	13:15–14:15	a310	Annual General Meeting: Quantum Optics and Photonics
Q 35.1–35.6	Wed	14:30–16:00	a310	Laser Development II
Q 36.1–36.7	Wed	14:30–16:15	e001	Quantum Gases: Bosons IV
Q 37.1–37.8	Wed	14:30–16:30	e214	Quantum Information: Concepts and Methods VI
Q 38.1–38.8	Wed	14:30–16:30	f303	Ultra-cold atoms, ions and BEC II (with A)
Q 39.1–39.8	Wed	14:30–16:30	f342	Nano-Optics II
Q 40.1–40.7	Wed	14:30–16:30	f428	Precision spectroscopy of atoms and ions I (with A)
Q 41.1–41.7	Wed	14:30–16:30	f442	Quantum Effects: Entanglement and Decoherence II
Q 42.1–42.64	Wed	16:30–19:00	Empore Lichthof	Poster: Quantum Optics and Photonics III
Q 43.1–43.10	Wed	16:30–19:00	Empore Lichthof	Ultracold plasmas and Rydberg systems (with A)
Q 44.1–44.24	Wed	16:30–19:00	Empore Lichthof	Precision spectroscopy of atoms and ions (with A)

Q 45.1–45.8	Thu	11:00–13:00	a310	Ultrashort Laser Pulses I
Q 46.1–46.7	Thu	11:00–12:45	e001	Quantum Gases: Bosons V
Q 47.1–47.8	Thu	11:00–13:00	e214	Quantum Information: Quantum Computing and Communication I
Q 48.1–48.8	Thu	11:00–13:00	f107	Ultra-cold atoms, ions and BEC III (with A)
Q 49.1–49.8	Thu	11:00–13:00	f342	Optomechanics I
Q 50.1–50.7	Thu	11:00–13:00	f428	Precision spectroscopy of atoms and ions II (with A)
Q 51.1–51.8	Thu	11:00–13:00	f442	Quantum Effects: QED I
Q 52.1–52.8	Thu	14:30–16:30	a310	Ultrashort Laser Pulses II
Q 53.1–53.9	Thu	14:30–16:45	e001	Quantum Gases: Fermions I
Q 54.1–54.8	Thu	14:30–16:30	e214	Quantum Information: Quantum Computing and Communication II
Q 55.1–55.8	Thu	14:30–16:30	f303	Ultra-cold atoms, ions and BEC IV (with A)
Q 56.1–56.5	Thu	14:30–15:45	f342	Optomechanics II
Q 57.1–57.7	Thu	14:30–16:30	f442	Quantum Effects: QED II
Q 58.1–58.89	Thu	16:30–19:00	Empore Lichthof	Poster: Quantum Optics and Photonics IV
Q 59.1–59.4	Thu	16:30–19:00	Empore Lichthof	Poster: Symposium Biomedical Optics (SYBO)
Q 60.1–60.8	Fri	11:00–13:00	a310	Laser Applications I
Q 61.1–61.9	Fri	11:00–13:15	e001	Quantum Gases: Fermions II
Q 62.1–62.7	Fri	11:00–12:45	e214	Quantum Information: Quantum Computing and Communication III
Q 63.1–63.8	Fri	11:00–13:00	f107	Ultra-cold atoms, ions and BEC V (with A)
Q 64.1–64.6	Fri	11:00–12:30	f342	Nano-Optics III
Q 65.1–65.7	Fri	11:00–12:45	f428	Precision spectroscopy of atoms and ions III (with A)
Q 66.1–66.6	Fri	11:00–12:45	f442	Quantum Effects: QED III
Q 67.1–67.3	Fri	14:30–15:15	a310	Laser Applications II
Q 68.1–68.8	Fri	14:30–16:30	e001	Quantum Gases: Fermions III
Q 69.1–69.6	Fri	14:30–16:00	e214	Quantum Information: Quantum Computing and Communication IV
Q 70.1–70.6	Fri	14:30–16:00	f342	Quantum Gases: Bosons VI
Q 71.1–71.7	Fri	14:30–16:30	f442	Quantum Effects: QED IV
Q 72.1–72.4	Fri	15:30–16:30	a310	Ultrashort Laser Pulses III

Annual General Meeting of the Quantum Optics and Photonics Division

Wednesday 13:15–14:15 a310