

Program ICQNN'22 Jena

Times, sessions and locations

Time	Monday 5.9.	Tuesday 6.9. HS1, Max-Wien-Platz 1	Wednesday 7.9. HS1, Max-Wien-Platz 1	Thursday 8.9. HS1, Max-Wien-Platz 1	Time	Friday 9.9.
8:45-9:00		Opening remarks				
9:00-10:00		Session 1	Session 5	Session 7	9:00-11:30	Zeiss visit Meeting point: Outside in front of entrance Carl-Zeiß- Promenade 10
10:00-10:30		Coffee break	Coffee break	Coffee break		
10:30-11:00		Session 2	Session 6	Session 8		
11:00-12:45		Lunch break @ Mensa Philosophenweg	Lunch break @ Mensa Philosophenweg	Lunch break @ Mensa Philosophenweg		
12:45-14:00		Session 3	Social event: Visit to Weimar, guided city tour, Meeting point: outside in front of Max-Wien- Platz 1	Session 9	11:30-13:00	Lunch break @ Mensa Beutenberg
14:00-15:30		Coffee break		Coffee break	13:00-14:00	Industry linkage session, ACP Auditorium, Albert-Einstein-Str. 6
15:30-16:00		Session 4		Session 10	14:00-15:00	Education event, ACP Auditorium, Albert-Einstein-Str. 6
16:00-17:30	Meta-active lecture 2 Dragomir Neshev, HS1, Max-Wien-Platz 1					
17:30-19:30		Poster session with snacks and drinks, ZAF seminar room Philosophenweg 7 Jena		NOA Poster session with snacks and drinks, ZAF seminar room Philosophenweg 7 Jena		
19:45			Conference dinner at Botanical Garden	Closing remarks, award of poster prices		

Registration

The registration desk is located in the foyer of Max-Wien-Platz 1.

Opening hours:

Tuesday: 8:30-16:00

Wednesday: 8:30-9:30 and 13:30-14:30

Wednesday: 8:30-9:30 and 13:30-14:30

Note that pre-registration is required before the registration deadline.

Program overview

Time	Monday 5.9.	Tuesday 6.9.	Wednesday 7.9.	Thursday 8.9.	Time	Friday 9.9.
8:45-9:00		Opening remarks				
9:00-10:30		Session 1	Session 5	Session 7	9:00-11:30	Zeiss Visit
09:00		Rachel Grange	Alex Cerjan	Costantino de Angelis		
09:15		Artem Sinelnik	Ilya Shadrivov	Anton Desyatnikov		
09:30		Igal Brener		Sven Burger		
09:45		Luka Zurak		Ivan Buchvarov		
10:00		Coffee break	Coffee break	Coffee break		
10:15		Session 2	Session 6	Session 8		
10:30-11:00		Jihua Zhang	Pablo Albella	Asger Mortensen		
11:00		Maximilian Weißflog	Fiona Beck	Xiaofei Wu		
11:15		Michael Kues		Javier González Colsa		
11:30		Ruben Pompe	Mohsen Rahmani	Duk-Yong Choi		
11:45		Sina Saravi		Angela Barreda		
12:00		Lunch break	Lunch break	Lunch break		
12:15						
12:30						
12:45-14:00						
14:00-15:30		Session 3	Social event: Visit to Weimar	Session 9	13:00-14:00	Industry linkage session
14:00	Chennupati Jagadish			Giulio Cerullo	13:00	Mathias Hädrich, Vistec Electron Beam GmbH
14:15	Giuseppe Leo			Alvaro Rodriguez Echarri		
14:30	Hoe Tan			Michele Celebrano	13:30	tba
14:45	Coffee break			Anna Fedotova		
15:00				Coffee break		
15:15						
15:30-16:00						
16:00-17:30	Meta-active lecture 2	Session 4		Session 10	14:00-15:00	Education event
16:00	Dragomir Neshev	Caterina Cocchi		Sonia Boscolo		Thomas Pertsch
16:15		Remesh Vikas		Andrei Komar		
16:30		Jennifer Hollingsworth		Carsten Rockstuhl		
16:45		Quyet Ngo		Lyubomir Stoyanov		
17:00						
17:15						
17:30-19:30		Poster session with snacks and drinks		NOA Poster session with snacks and drinks	Have a good trip home!	
19:45						
19:45		Conference dinner at Botanical Garden				

Tuesday 6.9.2022

HS1, Max-Wien-Platz 1

Session 1

Chair: Thomas Pertsch

Rachel Grange

Artem Sinelnik

Igal Brener

Luka Zurak

Nonlinear Nanophotonics 1

Spontaneous parametric down-conversion in bottom-up grown microcubes and nanostructures

Higher Harmonic Generation from phase change materials

Parametric Down-conversion and Ultrafast Emission Control in Semiconductor Dielectric Metasurfaces

Tunable second harmonic generation in plasmonic nanogaps by local symmetry breaking

Session 2

Chair: Frank Setzpfandt

Jihua Zhang

Maximilian Weißflog

Michael Kues

Ruben Pompe

Sina Saravi

Quantum effects

Single-Shot Characterization Of Two-Photon Distinguishability With Topology Optimized Metasurfaces

Photon-Pair Generation in Nanoresonators: A Universal Computational ToolSet based on Quasinormal Modes

Spectral two-photon quantum interference between light states of different photon statistics

Pure Dephasing Induced Single-Photon Parametric Down Conversion In An Ultrastrong Coupled Plasmon-Exciton System

Subdiffraction Quantum Imaging with Undetected Photons

Session 3

Chair: Angela Barreda

Chennupati Jagadish

Giuseppe Leo

Hoe Tan

Semiconductor Nanophotonics

Semiconductor Nanowires for Optoelectronics Applications

Nonlinear dielectric metasurfaces generating complex forms of second-harmonic light

Shape Engineering of III-V Nanostructures by Selective Area Epitaxy

Session 4

Chair: Giancarlo Soavi

Caterina Cochi

Remesh Vikas

Jennifer Hollingsworth

Quyêt Ngo

Low-dimensional systems

Laser-controlled charge transfer in a two-dimensional organic/inorganic interface

Red-Detuned Excitation Of A Quantum Dot

Nanocrystal Quantum Emitters: From the Flask to Photonic Devices

Nonlinear Dynamics In Optical Fiber With Embedded 2d-Material

Poster session Tuesday

ZAF seminar room, Philosophenweg 7

Anahita Khodadad Kashi	Time-Stretch Dispersive Fourier Transform For Direct Spectral Characterization Of Parametric Biphoton States
Álvaro Rodríguez Echarri	Photon pair directly produced into the guided modes of nonlinear waveguides via down-conversion
Ning Lyu	Design And Theory Of Nanostructures For Co2 Reduction
Agostino Occhicone	Mid-Infrared Label-Free Sensing Enhanced By Bloch Surface Waves
Min Jiang	Metasurface-Assisted Cavity Ring-Down Spectroscopy For Ultrasensitive Thin Film Circular Dichroism Detection
Laura Valencia	Spin Coating Deposition Of Gold Nanoparticles In A Monolayer Of Molybdenum Disulphide
Marijn Rikers	Fabrication and characterization of nanoscopic fluorescent emitters
Fatemeh Abtahi	Surface Second Harmonic Generation In Dielectric Nanofilms
Luka Zurak	Fast electrical modulation of a single plasmonic nanoresonator
Yunus Denizhan Sirmaci	All dielectric mie resonant integrated photonics
Zhan-Hong Lin	Plasmonic Elliptical Nanoholes For Chiroptical Analysis And Enantioselective Optical Trapping
Sai Shradha	Efficient Nonlinear Conversion Of Light By Embedded 2d-Tmds
Joao P. B. Ligabo	Towards Integrating Single-Photon Emitters Into Nanophotonic Devices
Tommaso Pileri	Bloch Surface Wave Based Biosensor For Breast Cancer Biomarker Detection In A Competitive Bioassay
Muyi Yang	Second Harmonic Generation of Monolithic Gallium Phosphide Metasurfaces
Aleksa Krstic	High-Gain Spontaneous Photon-Pair Generation In Dispersive And Absorbing Nanostructured Systems
Daniel Reiche	Fundamental Uncertainties In Atom-Field Interactions At Finite Temperature
Alexey Ustinov	Linear and second-order response of metamaterial-inspired resonant waveguides hybridized with transition metal dichalcogenides

Wednesday 7.9.2022

HS 1, Max-Wien-Platz 1

Session 5

Chair: Ulf Peschel

Sven Burger

Ilya Shadrivov

Alex Cerjan

Theory and Advanced Modeling

Simulation And Analysis Of Resonant Photonic Devices Using Riesz Projection Methods

Amplitude, phase and polarisation tuning with ferroelectric metasurfaces

Identifying topology directly from Maxwell's equations: band structures and Bloch eigenstates not required

Session 6

Chair: Christin David

Pablo Albella

Fiona Beck

Javier González Colsa

Mohsen Rahmani

Thermal control and photocatalysis

Hybrid plasmonic nanoresonators: a powerful tool to generate and control heat at the nanoscale with light

Understanding the mechanisms driving plasmon-enhanced photocatalysis

Boosting The Photothermal Response Of Plasmonic Systems Via Anapole Modes

Thermally controlled metasurfaces for sensing applications and image generation

Thursday 8.9.2022

HS1, Max-Wien-Platz 1

Session 7

Chair: Dragomir Neshev

Costantino De Angelis

Anton Desyatnikov

Ayesheh Bashiri

Ivan Buchvarov

Nonlinear and topological Nanophotonics 2

Reconfigurable nonlinear photonic metasurfaces

Dislocations of geometric phase in trimer lattices

Tailoring Magnetic Dipole Emission By Broken-Symmetry All-Dielectric Metasurfaces

Optical Metasurface Dichroic Mirror: A Route to Efficient Temporal, Spectral, and Polarization Control of Light

Session 8

Chair: Thomas Pertsch

Asger Mortensen

Xiaofei Wu

Guillermo Serrera
Pardueles

Angela Barreda

Duk-Yong Choi

Plasmonics and Fabrication

Mesoscopic electrodynamics at metal surfaces: search for quantum and nonlocal effects

Light-Driven Microdrones

Chiral Sensing Based On Directional Plasmons

Exciting And Mapping Unidirectional Surface Plasmon Polaritons By Aperture Snom Tip

Materials and fabrication of nanophotonic devices

Session 9

Chair: Giancarlo Soavi

Giulio Cerullo

Alvaro Rodriguez Echarri

Michele Celebrano

Anna Fedotova

Nonlinear Nanophotonics 3

Nonlinear optical response of two-dimensional materials

Nonlinear Plasmonic Response In Atomically Thin Metal Films

Controlling and steering the nonlinear emission in nanoantennas and metasurfaces

Lithium niobate metasurfaces with spatially engineered nonlinearity

Session 10

Chair: Sina Saravi

Sonia Boscolo

Andrei Komar

Carsten Rockstuhl

Lyubomir Stoyanov

Novel Effects

Frequency locking of a breather fibre laser, fairy tree and devil's staircase

Meta-optical systems for advanced driver-fatigue monitoring

Linear and nonlinear optical properties of molecules and their interaction with structured photonic materials

Wavelength-tolerant generation of long-range Gauss-Bessel beams by using spiral phase plates

NOA poster session Thursday

ZAF seminar room, Philosophenweg 7

Vilborg Vala	Optical And Structural Properties Of Iridium/Aluminum Oxide Heterostructures Fabricated By Atomic Layer Deposition
Abhik Chakraborty	Towards Single-Molecular Sensing: Spatio-Spectral Tailoring Of Plasmonic Modes For Surface-Enhanced Coherent Anti-Stokes Raman Scattering
Daniel Reiche	Fundamental Uncertainties In Atom-Field Interactions At Finite Temperature
Daniel Repp	Lasing simulations for hybridized semiconductor nanowires
Pallabi Paul	Linear and nonlinear optical properties of ultrathin iridium coatings by atomic layer deposition
Gino Wegner	Halevi's extension of the nonlocal hydrodynamic model for plasmonic systems
Jeetendra Gour	Fabrication of sub 5-nm plasmonic nano-gap structures for extreme confinement of optical fields
Navid Daryakar	Thin films of nonlinear metallic amorphous composites
Parijat Barman	Investigation of non-linear optical response from azimuthally chirped plasmonic grating
Tobias Bucher	On the nature of valley polarized dipole emission from monolayer molybdenum disulphide