

## Online Workshop on Structured Light and its Applications

<https://uni-jena-de.zoom.us/j/63769750845>

Meeting ID: 637 6975 0845

Passcode: 989399

### GatherTown link for poster presentation and networking

<https://app.gather.town/app/EwNZfrvjk16XymuU/StructuredLight>

		November 7 Monday	November 8 Tuesday
0855 - 0900		<b>Welcome</b>	
0900 - 1040	0900 - 0930	<b>Lorenzo Marrucci</b> , Università di Napoli Federico II, Italy Photonic quantum walks with structured light for quantum simulations	<b>Jeroen Beeckman</b> , UGhent, Belgium Liquid crystal technology for geometric phase optics
	0930 - 0950	<b>Jer-Shing Huang</b> , Leibniz-IPHT, Jena Chiral Structured Illumination Microscopy	<b>Vincenzo D'Ambrosio</b> , Università di Napoli Federico II, Italy Ultra-sensitive measurement of transverse displacements with photonic gears
	0950 – 1005	<b>Niladri Modak</b> , IISER Kolkata, India Emerging aspects of optical beam shifts	<b>Praveen Kumar</b> , Chiba University, Japan Dual-pass phase modulation approach to generate structured light
	1005 – 1020	<b>Muhammad Waqar Iqbal</b> , Université de Lorraine Structured vector beams via conical diffraction cascade	<b>Grant W. Henderson</b> , University of Strathclyde, UK Structuring ultracold atoms with light
	1020 – 1035	<b>Vittorio Aita</b> , King's College London, UK Focused complex beams interacting with strongly anisotropic metamaterials	<b>Sinuhé Perea Puente</b> , King's College London, UK Passive structured metasurface for anomalous penetrating transmission through an opaque material
1040- 1100		Coffee Break	
1100 - 1230	1100 - 1130	<b>Ileana-Cristina Benea-Chelmus</b> , EPFL, Switzerland Gigahertz speed electro-optic metasurfaces	<b>Thomas Pertsch</b> , UniJena, Germany Controlling light by nanostructured metasurfaces for applications ranging from UV to IR
	1130 - 1150	<b>Bruno Piccirillo</b> , Università di Napoli Federico II, Italy Generating polarization monstar disclinations based on a geometric approach	<b>Spencer Jolly</b> , ULB, Brussels Spatio-temporally structured light
	1150 – 1205	<b>Shreyas Ramakrishna</b> , UniJena Germany Photo-excitation of atoms by cylindrically polarized Laguerre-Gaussian beams	<b>Venugopal Raskatla</b> , NIT Warangal, India Speckle-based Recognition of Orbital Angular Momentum Modes

	1205 - 1230	3 minutes Poster Talk		
1230 - 0230		<b>Poster presentation @GatherTown - Lunch Break - Networking</b>		
0230 - 0345	0230-0315	<b>Andrea Alù</b> , CUNY, New York Nonlocal metasurfaces	0230-0300	<b>Stefan Nolte</b> , UniJena, Germany Structured light for ultrashort pulse materials processing
	0315-0345	<b>Natalia Litchinitser</b> , Duke Univ, USA Topology of light and darkness in engineered optical media	0300-0330	<b>Andrea Blanco-Redondo</b> , Nokia Bell Labs, USA Topological quantum nanophotonics
			0330-0345	<b>Stree Vithya Arumugham</b> , UniJena, Germany Waveguides based on spin-orbit interaction
0345 - 0400		Coffee Break		
0400 - 0540	0400-0420	<b>Filippo Cardano</b> , Università di Napoli Federico II, Italy Ultra-long quantum walks via spin-orbit photonics		<b>Maria Del Mar Sanchez Lopez</b> , Universidad Miguel Hernández, Spain Tailoring depolarization spatial patterns with a liquid-crystal SLM
	0420-0440	<b>Raouf Barboza</b> , Università Politecnica delle Marche, Italy Geometric Phases and beam structuring with liquid crystals photonics		<b>Battulga Munkhbat</b> , DTU Fotonik, Denmark Nanostructured transition metal dichalcogenide multilayers for advanced nanophotonics
	0440-0455	<b>Sandra Mamani</b> , City College CUNY, USA OAM Multipoles Polarized Light-Matter Interaction		<b>Verónica Vicuña-Hernández</b> , Università di Napoli Federico II, Italy Orbital angular momentum broadening in Poincaré beams
	0455-0510	<b>Amala Raj</b> , Indiana University Bloomington, USA Orbital Optical Trapping at Atmospheric Pressure		<b>Sebastian Linss</b> , UniJena, Germany Wave-optical simulation of macroscopic dielectric metasurfaces
	0510-0540	<b>Jennifer Dionne</b> , Stanford Univ, USA Emerging nanophotonic platforms for environmental and human health monitoring: Re-imaging the conventional microbiology toolkit		<b>Alessandro Alberucci</b> , UniJena, Germany Influence of geometric phase on the propagation of optical waves
0540-0545			<b>Best poster award</b> <b>Concluding Remarks</b>	

### Poster Presentations – Day 1

- Felipe Almeida**, Pontifícia Universidade Católica do Rio de Janeiro  
Optical Bottle Beam
- Mouli Hazra**, Institute of Optics and Quantum Electronics, UniJena  
Nonlinear polarization holography of metal nanolayer
- Esther Nabadda**, Universidad Miguel Hernández de Elche, Spain  
Retrieving the phase distribution of structured light beams by a self-interferometric technique
- A. Ustinov**, Institute of Solid State Physics, UniJena  
Linear and second-order response of metamaterial-inspired resonant waveguides hybridized with transition metal dichalcogenides
- Sharareh Jalali**, Urmia University, Urmia, Iran  
Study of the superposition of optical vortex beams
- S Ashutosh**, Department of Physical Sciences, IISER, Kolkata, India  
Non-separability and classical entanglement through optical beam shifts
- Aiham Rostom**, Institute of Automation and Electrometry SBRAS, Novosibirsk, Russia.  
Beyond the weak value: optimal post selected quantum metrology
- Zhan-Hong Lin**, Leibniz Institute of Photonic Technology, Jena, Germany  
Plasmonic elliptical nanoholes for chiroptical analysis and enantioselective optical trapping

### Poster Presentations – Day 2

- Athira Kuppadakkath**, UniJena, Germany  
Effect of gradual heating on quasi-BIC dielectric metasurface
- Andrea Vogliardi**, University of Padova, via Marzolo 8, 35131 Padova, Italy  
Metaoptics for the controlled generation of orbital angular momentum vector Beams
- Rohit Kumar**, Indian Institute of Technology Patna, Patna  
Observation of narrow EIT linewidth in Rubidium – 85 atomic system at room temperature vapor medium in presence of structured coupling beam
- J. L. M. Villanueva**, Universidade Federal de Itajubá, Brazil.  
Influence of the electrolyte and etch-stop time upon the optical response of 1D-porous silicon photonic crystal structures
- M. C. Alonso Casimiro**, Instituto Nacional de Astrofísica, Óptica y Electrónica, Mexico  
Generation of periodic and quasi-periodic two-dimensional non-diffractive beams with inhomogeneous polarization
- Dixith Manchaiah**, Indian Institute of Technology Patna, Patna  
Interplay of polarizations and vortex in a cascade EIT system of 87 Rb atomic vapor medium
- Jeetendra Gour**, UniJena, Germany  
Fabrication of sub 5-nm plasmonic nano-gap structures for extreme confinement of optical fields
- Sebastian Beer**, UniJena, Germany  
Investigation on surface lattice resonance enhancement of SHG in plasmonic metasurfaces