

## Poster Session 2, Tuesday, 4 June, 17:00 (CEST)

Luis Mickeler	HYBRAIN: Electronic-photonic Architectures for Brain-inspired Computing
Alessio Miranda	Arbitrary Ratio Power Splitters Using Bent MultiMode Interference Couplers
Mehmet Müftüoğlu	Efficient Techniques for Supervised Output Training on Photonic Reservoirs and Extreme Learning Machines
Abhishek Nanda	Inverse Design for Integrated Polymer 3D Optical Circuits
Alfonso Nardi	Intensity Statistics Resulting from a Large Ensemble of Nonlinear Optical Operations Performed by a Disordered Photonic Medium
Anastasia Novikova	Silicon Rib Waveguide with Palladium Coated Gold Nanorods Overlayer for Hexane and N-Methylaniline Detection
Pranat Panda	Fabrication Error in Photonic Integrated Circuits
Alexandra Rittmeier	Combining Two-Photon Polymerization and Inverse Design to Enable the Fabrication of Tailored Nanophotonic Components
Julius Römer	Development of Record High-speed Quantum Key Distribution System
Karthika S Sunil	Numerical Demonstration of Archimedean Spiral with Highest Dissymmetry Factor
Mohammad Sobhi Saeed	Neuromorphic Information Processing in Nonlinear Optical Fibers

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Lorenz Sauerzopf	Broadband Inverse Design Grating Couplers for Fast-Prototyping and Efficient Coupling
Larissa Schoske	Magnetic Aerogels from FePt and CoPt <sub>3</sub> Directly from Organic Solution
Naresh Sharma	Photonic Integrated Scanning Microscopy
Duarte Silva	Towards a High Speed and Low Loss InP Electro-optical Phase Modulator for Heterogeneous Integration with SiN Photonics
Grigorii Slinkov	Coherent Multi-frequency Photonic Activation Function
Yayan Tan	Study of Liquid Crystals in Confined Environment Between Metasurface Nanostructures
Pia Thomsen	Photoelectrochemical Investigation of Nanoparticle-Based Assemblies
Niccolò Tiezzi	TBA
Yu Wang	Polarization Insensitive 40-channel 100 GHz Spacing Fold-back Planar Echelle Grating Mux/Demux for Photonic Integrated Wavelength Selective Switches
Kilian Welz	Experimental Setup for Characterizing Waveguide-integrated Superconducting Nanowire Single-photon Detectors at 1550nm
Mingwei Yang	Optical Systems for Classical and Quantum Computing for Machine Learning in Orbit

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- Kessem Zamir Abramovich    **Low-threshold Lasing with a Stationary Inflection Point in a Three-coupled-waveguide Structure**
- Yaoyuan Zhang                **Design of a Compact and Efficient Silicon-Based Integrated Optical Phased Array**