

Meta-Active Annual Meeting 2024 and Jena LIGHT 2024 - Photonics meets AI

Preliminary program version 09.08.2024

Venue: Abbe Center of Photonics, Jena, Germany

Date: September 2-6, 2024

GER AUS Monday, 02.09.2024 Tuesday, 03.09.2024 Wednesday, 04.09.2024 Thursday, 05.09.2024 Friday, 06.09.2024

local elements of Meta-Active meeting
hybrid elements of Meta-Active meeting

08:30	16:30	Meta-Active Welcome & Update	Talk Session 5 (2D Material MS) Sarka Vavreckova Xuechen Jing Benjamin Laudert Zlata Fedorova Athira Kuppadaakkath	Strategy meeting all Pls hybrid	Representative Voting all PhD students hybrid	Demetri Psaltis (EPFL, keynote) online Nonlinear Computation with Linear Optics	Yaron Bromberg (Jerusalem) Quantum Communication and Computation with High-Dimensional Entangled Photons
09:00	17:00	Talk Session 1 (Nonlinear MS) Martin Miculka Laura Valencia Muyi Yang					
09:30	17:30			Coffee break 20'		Clara Wanjura (MPL Erlangen) Fully Nonlinear Neuromorphic Computing with Linear Wave Scattering	Mauro Paternostro (Palermo)
10:00	18:00	Coffee break 20'	Coffee break 20'		Talk Session 7 (Tunable MS) Rahil Rezwani Ziwei Yang Maximilian Beddoe Shiu Hei Lam Sebastian Klimmer		
10:30	18:30	Talk Session 2 (Quantum MS) Jinliang Ren Saniya Shinde Carlo Panu Matthias Wurdack	Talk Session 6 (Light Emitting & Lasing MS) Lukas Jäger Ayeshah Bashiri Dawei Liu Fengkai Wei Marijn Rikers			Coffee break & posters	Coffee break & posters
11:00	19:00					J. Giesen & A. Breuer (FSU Jena) Einsum - A Formal Language for Tensor Expressions	Elena Goi (USST Shanghai) online Hybrid Nanoprinted Neural Networks
11:30	19:30			Coffee break 20'			
12:00	20:00	Lunch (Casino Beutenberg)			Sina Saravi (FSU Jena) AI Photonics - Merging Disciplines	Carlo Holly (Aachen)	Peter Bienstman (Ghent) Optical Computing with Silicon Photonic Reservoirs
12:30	20:30		Meta Active strategy lunch with all local Pls Pizza Buffet	Meta-Active Networking lunch with all local doctoral candidates & postdocs Pizza Buffet			
13:00	21:00	Talk Session 3 (MS Devices & Applications 1) Sarah Dean Min Jiang Anna Fitriana Ning Lyu		Lunch (Casino Beutenberg)		Lunch (Casino Beutenberg)	Lunch (Casino Beutenberg)
13:30	21:30						
14:00	22:00	Coffee break 20'	Jena LIGHT opening (at 14:15)		Wolfram Pernice (Heidelberg)	Alexander Heinecke (Intel)	Birgit Stiller (MPL Erlangen)
14:30	22:30	Talk Session 4 (MS Devices & Applications 2) Luyao Wang Wenyi Li Angela Barreda Shahban Ali Neuton Li	Carsten Rockstuhl (KIT) Machine Learning Enhanced Design of Meta-Atoms and Metasurfaces			Jean-P. Seifert (TU Berlin) Neuromorphic Accelerators Based on Phase Change Materials in Silicon Photonics	Janik Wolters (TU & DLR Berlin)
15:00					Stefanie Kroker (Braunschweig)		
15:30			Bhavini Shastri (Queen's CA) Neuromorphic Photonic Computing: Applications, Classical to Quantum				
16:00				Coffee break & posters		Coffee break	Farewell coffee & goodbye
16:30			Coffee break		Tatsuhiro Onodera (Cornell) Deep Physical Neural Networks: A Case Study with a 2D Programmable Photonic Chip		Visit of photonics research labs Leibniz Institute of Photonic Technology IPHT
17:00			Humeyra Caglayan (Tampere) Imaging Applications through Learning-Enhanced Metasurface Optics				
17:30		Lab tours & group meetings			Aydogan Ozcan (UCLA, keynote) Programming Light Diffraction for Information Processing and Computational Imaging		
18:00			Dragomir Neshev (ANU Canberra) Analog image processing with linear and nonlinear flat optics			Mario Chemnitz (FSU Jena) Neuromorphic Computing with Nonlinear Dynamics in Single-mode Fibers	
18:30					Transfer to Botanical Garden		
19:00		Informal Meta-Active Dinner (own expense) restaurant in city	BBQ, Beer & Posters We will enjoy a typical Thuringian barbeque while having a first look at the posters.			Pizza, Wine & Posters We will continue our discussions at the posters.	
19:30					Conference dinner		
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22:00							