



Photronics Finland

Pavilion, Hall A2 - Booth #236

LASER World of PHOTONICS

27 - 30 June, 2023,
Munich



Monday June 26, 2023



Photonics Research
and Innovation

9:45 *Ultrafast non-classical light sources based on single InAs/GaAs quantum dot embedded in a hybrid plasmonic nanopillar cavity, Tampere University and University of Eastern Finland*

11:00 *Long-Lived Hot Electron dynamics via hyperbolic meta-antennas, Tampere University*

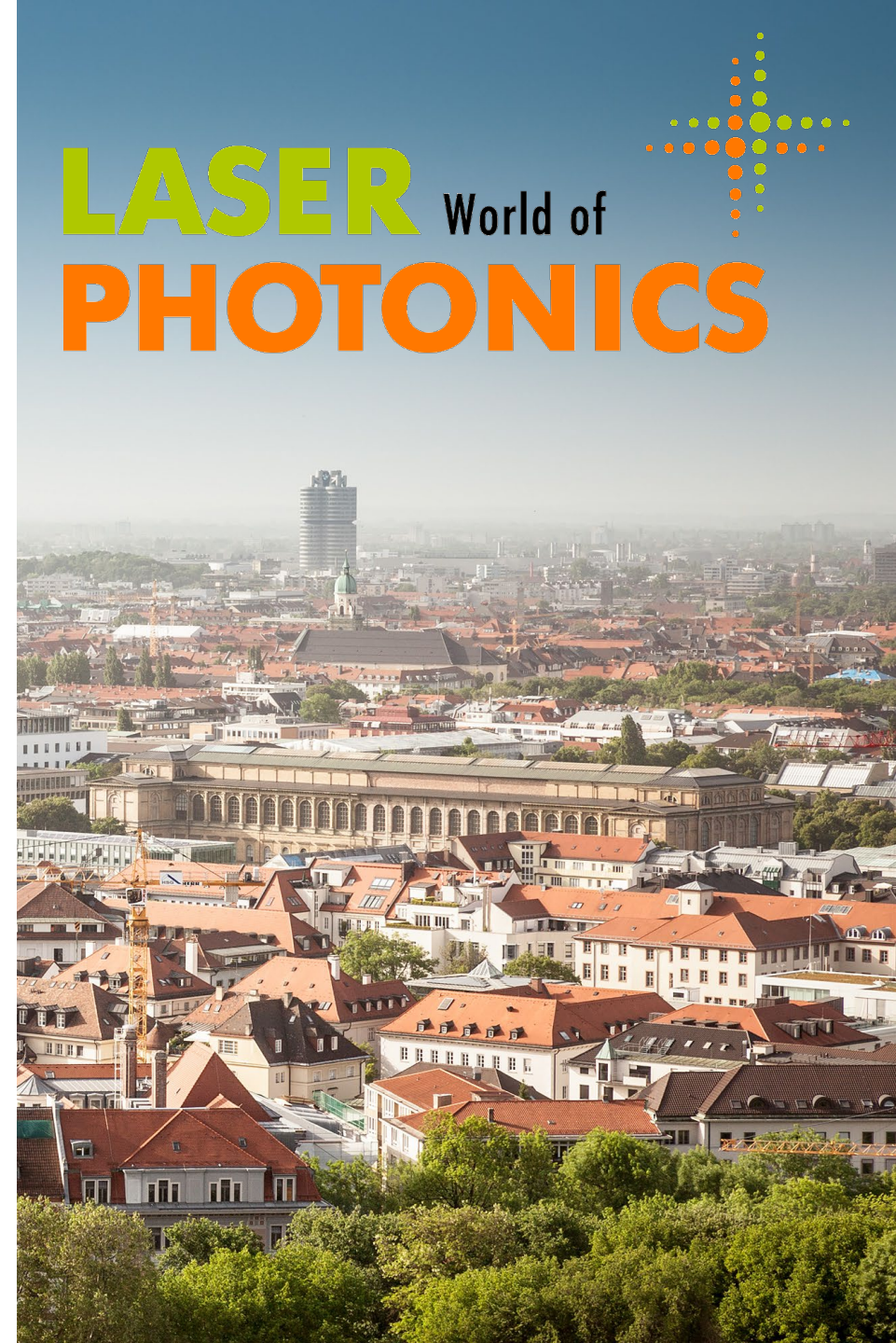
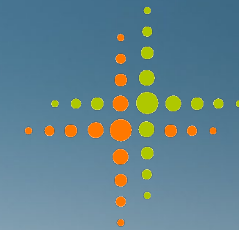
11:30 *Light-to-sound conversion in silicon nanodrums, Aalto University*

14:15 *Recent developments on MECSELS: Multi-type quantum well gain structures for widely tunable continuous wave operation and a non-resonant sub-cavity design, Tampere University and Paderborn University, Germany*

13-14 *Towards a robust and stand-alone ultra-stable laser system based on a 124 K Si resonator with an instability of 4×10^{-17} -poster, VTT and Physikalisch-Technische Bundesanstalt, Germany*



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Tuesday June 27, 2023



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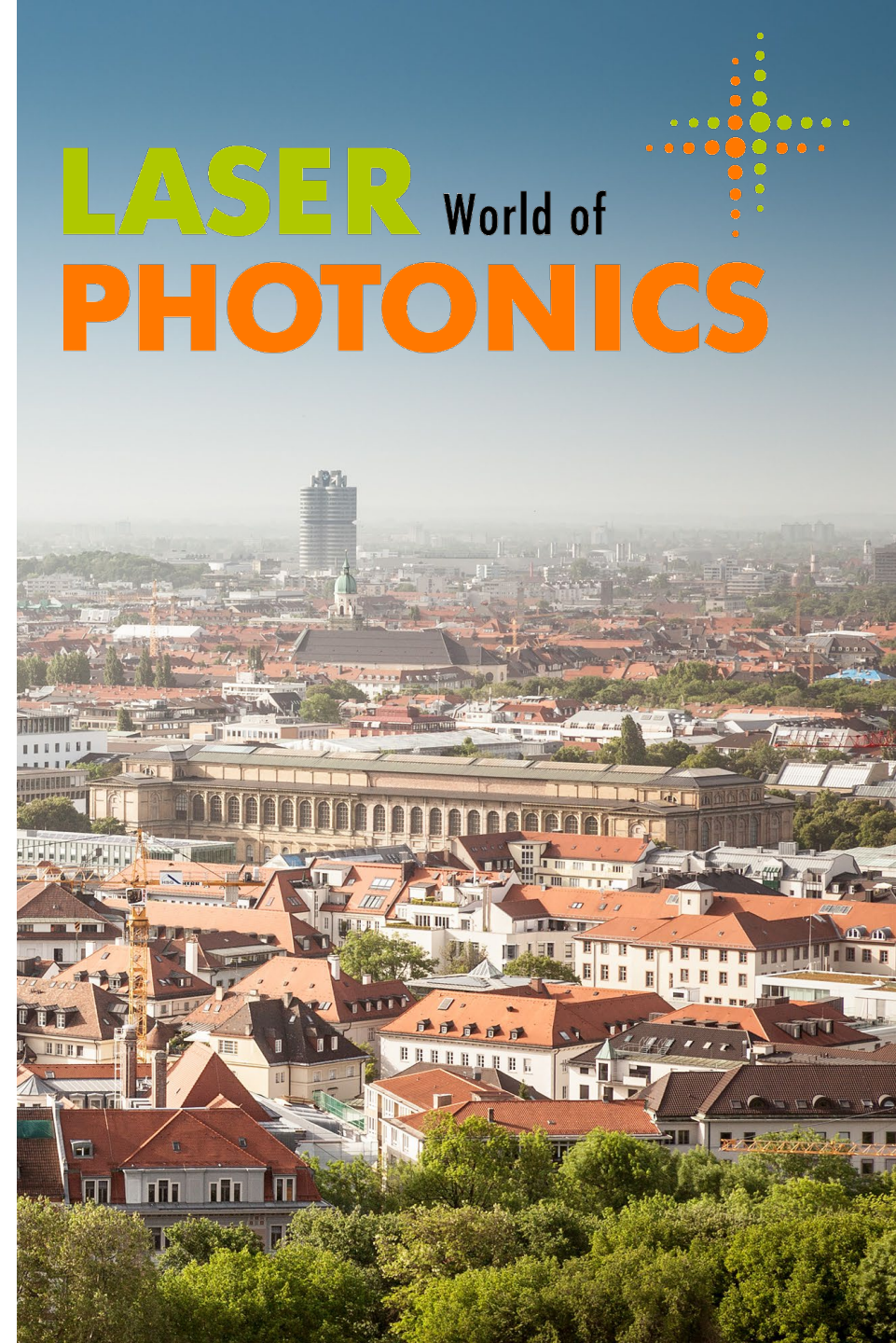
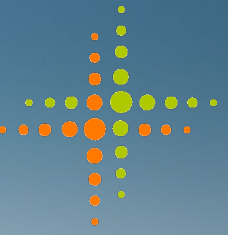
9:30 *Polarization Vortex-Driven Third-Harmonic Generation in a Single Vertically-Aligned Semiconductor Nanowire*, Tampere University and Aalto University

14:30 *Genetic algorithm spectral shaping of supercontinuum over 1550-2000 nm* Tampere University and Université de Franche-Comté, France

17:00 *Low loss InP U-bend gain waveguides for hybrid integration with silicon photonics*, Tampere University, Tampere and VTT



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Wednesday June 28, 2023

8:45 *Generalized angle-OAM Talbot effect in ring-core fibers*, Tampere University and Sorbonne Université, France

9:30 *High efficiency interface between multi-mode and single-mode fibers*, Tampere University,

11:00 *Rotation sensing with structured photons and multi-plane light-conversion* Tampere University, National Research Council of Canada, University of Ottawa, Ottawa, Canada, Max-Planck-Institut für die Physik des Lichts, Germany and Departamento de Óptica, Spain

14:15 *Genetic algorithm optimization of broadband operation in a noise-like pulse fiber laser*, Tampere University, Tampere, Université de Franche-Comté, France, Jilin University, China and Université de Bourgogne, France

14:45 *Spatial coherence characterization in multimode fibers*, Tampere University

16:00 *Radially polarized picosecond MOPA system based on double-clad ytterbium-doped spun tapered fiber with ring-shaped active core*, Tampere University, Ampliconix Ltd, Finland, Leibniz Institute of Photonic Technology, Germany and Optoelectronics Research Centre, United Kingdom

16:15 *Multiply-resonant Waveguide Gratings for Enhanced Second-harmonic Generation*, Tampere University

17:15 *High energy passively Q-switched laser on a CMOS platform*, Center for Free-Electron Laser Science CFEL, Germany, University of Twente, Netherlands, Aalto University, McMaster University, Canada, University of Hamburg, Germany and LIGENEC, Switzerland

Thursday June 29, 2023

11:30 *Towards high-power ultrafast short-wavelength-band Tm-doped fiber laser, Tampere University and University of Southampton, United Kingdom*

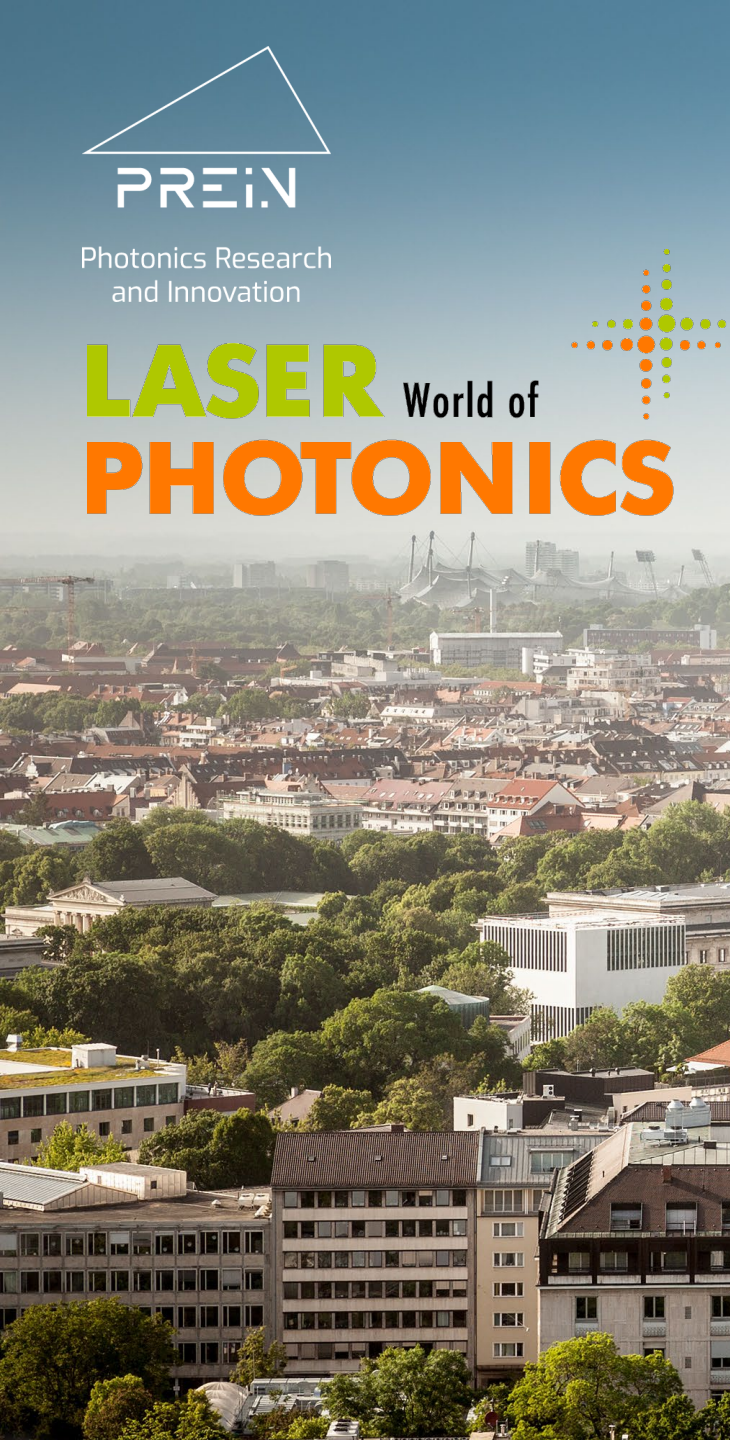
13:00 *Cantilever-Enhanced Photoacoustic Detector for Black and Brown Carbon, Aalto University, University of Helsinki, Finland, Finnish Meteorological Institute, Tampere University, VTT and Gasera Ltd., Finland*

13:00 *Laser-Assisted Bonding Prototype Equipment for Hybrid Integration of Silicon Photonic Circuits, Tampere University*

13:00 *GaSb-based 1.5 μ m quantum dot emitters for quantum photonic integration and communication, Tampere University, Technical University of Berlin, Germany and Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany*

13:00 *Noise types in correlation-based target detection, Aalto University*

14:00 *Observation of the quantum Gouy phase, Tampere University*





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Friday 30, 2023

11:15 *Phase-controlled Fourier-transform infrared spectroscopy with cantilever enhanced photoacoustic detection*, University of Helsinki and Tampere University

13:00 *Miniaturized Spectrometer with Bias-Configurable Two-Dimensional Semiconductor/Metal Schottky Junction*, Aalto University

14:00 *Glass-based materials for (bio)photonic applications*, Tampere University

14:45 *Measuring the topological aberration of optical vortices*, Tampere University

16:00 *Machine Learning analysis of temporal instability peaks under Continuous Wave excitation in optical fiber Modulation Instability*, Université de Franche-Comté, France Tampere University and Université de Bourgogne, France

16:15 *Identifying extreme localization and rogue waves in fibre optics using datadriven dominant balance*, Université de Franche-Comté, France, Université de Bourgogne, France and Tampere University

16:45 *Spatio-Spectral Vector Fields*, Tampere University

