



ALT'19

INTERNATIONAL CONFERENCE
Advanced Laser Technologies



Programme Book

Prague, Czech Republic



15-20 September 2019



PLZEŇ HALL

11:00 - 12:45

Session Title [THZ-I] THZ PHOTONICS I
Session Chair J.Hebling

11:00

THz-I-1

[Keynote] Charge carrier transport in nanomaterials probed in the THz range

P. Kuzel¹, H. Nemeč¹

¹Institute of Physics of the Czech Academy of Sciences, THz spectroscopy group, Prague, Czech Republic

11:25

THz-I-2

[Invited] Time and spectrally resolved gain dynamics in THz quantum cascade lasers

J. Darmo¹, G. Derntl¹, D. Theiner¹, G. Scalari², M. Beck², J. Faist², K. Unterrainer¹

¹Photonics Institute, TU Wien, Campus Gusshausstrasse, 1040 Vienna, Austria

²Institute of Quantum Electronics, ETH Zürich, Auguste-Piccard-Hof 1, Zurich, 8093, Switzerland

11:45

THz-I-3

[Invited] THz Quantum Cascade Lasers: Materials Evaluation and Optimization

H. Detz

¹TU Wien, Center for Micro- and Nanostructures, Wien, Austria

²Brno University of Technology, Central European Institute of Technology, Brno, Czechia

12:05

THz-I-4

[Invited] Advanced control of complex matter by high-field terahertz pulses

F. Giorgianni¹

¹Paul Scherrer Institut, Research with Neutrons and Muons, Villigen PSI, Switzerland

12:25

THz-I-5

[Invited] Long wavelength stimulated emission in HgTe/CdHgTe quantum well heterostructures

A. Dubinov^{1,2}, V. Gavrilenko^{1,3}, V. Romyantsev^{1,3}, M. Fadeev^{1,4}, V. Utochkin¹, V. Aleshkin^{1,3}, N. Mikhailov^{5,6}, S. Morozov^{1,2}, Z. Krasilnik^{1,2}, C. Sirtori⁷

¹Institute for Physics of Microstructures RAS, Semiconductor physics department, Nizhny Novgorod, Russian Federation

²Lobachevsky State University, Radiophysics department, Nizhny Novgorod, Russian Federation

³Lobachevsky State University, Advanced School of General and Applied Physics, Nizhny Novgorod, Russian Federation

⁴L2C- UMR CNRS 5221- Montpellier University, Terahertz Spectroscopy Group, Montpellier, France

⁵A.V. Rzhanov Institute of Semiconductor Physics- Siberian Branch of Russian Academy of Sciences, Lab #15, Novosibirsk, Russian Federation

⁶Novosibirsk State University, Physics department, Novosibirsk, Russian Federation

⁷Laboratoire de Physique de l'Ecole Normale Supérieure, Physique Quantique et Dispositifs QUAD, Paris, France