

ICM²TS International Conference on Mobile and Miniaturized THz Systems

Day	Time	terahertz.NRW project- Poster Corridor	
Sunday	12:30 - 14:00 15:00 - 15:30	Title	Authors
		A Single SiGe MMIC VNA Extension Module: A Novel Cost-Effective Solution for D-Band Measurements	Justin Romstadt ; Klaus Aufinger; Jan Barowski; Nils Pohl
		SiGe-MMICs für Terahertz-Applications	https://www.terahertz.nrw/
		Terahertz.nrw - A Scientific Network for Terahertz Research in NRW	https://www.terahertz.nrw/
		Leistungszentrum Terahertz-Sensorik	https://www.terahertz.nrw/
		3D-Printed WR3 Band Photonic Crystal Resonator for Biosensing Applications	Yixiong Zhao ; Masoud Sakaki; Harrison N Lees; Withawat Withayachumnankul; Niels Benson; Jan C. Balzer
Day	Time	MARIE C projects- Poster Corridor	
Monday	12:30 - 14:00 15:00 - 15:30	Title	Authors
		C01 : Overview on Components and Concepts for UWB Phase-Locked Loops With Highest Phase-Stability	Marcel van Delden ; Lukas Polzin; Lion Kensbock; Bent Walther; Thomas Musch
		C02 : Heterointegrated Compact Resonant THz Sources for Mobile Applications	Enes Mutlu; Christian Preuss ; Florian Vogelsang; Alexander Possberg; Nils Pohl; Nils Weimann
		C03 : Advances in SiGe-Based Transceiver Front-End Circuits for THz MIMO Radar	Jonathan Bott; Muhammed Ali Yildirim ; Nils Pohl
		C04 : An Ultra-Broadband Multi-Color SiGe Transmitter for THz Spectroscopy	Ehsan Hamzeh ; Seyedamir Hendi Cheryani; Ullrich Pfeiffer; Marcel Andree
		C05 : Minimal-invasive Near-field Probing for OverThe-Air On-Chip Component Inspection at Millimeter-wave Frequencies	Zhenming Tian; Benedikt Sievert; Marvin Degen ; Daniel Erni; Andreas Rennings
		C06 : Components and Devices for a Compact Multistatic Optoelectronic THz Spectroscopy System	Israa Mohammad; Sebastian Gassel; Carsten Brenner; Kevin Kolpatzeck ; Andreas Stöhr
		C07 : Photonic Integrated Terahertz Imager	Thomas Haddad; Mohammad Faraz Abdullah ; Niklas Schulz; Andreas Stöhr; Martin Hofmann; Sascha Preu
		C08 : Triple-Band Antenna-Coupled Terahertz Direct Detectors in a 0.13- μ m SiGe HBT Technology	Marcel Andree ; Benedikt Sievert; Andreas Rennings and Daniel Erni; Ullrich Pfeiffer
		C09 : Ceramic-Based High-Q Retroreflectors for Sub-mm Localization in High-Temperature Environments	Alejandro Jiménez-Sáez ; Masoud Sakaki; Jesús Sánchez-Pastor; Martin Schüßler; Rolf Jakoby; Niels Benson
		C12 : Design and Analysis of a Trident-Shaped 1x3 Dielectric Waveguide Splitter for THz Applications	Marcel A. Burfeindt ; Kristof Dausien; Lisa Schmitt; Jan Barowski; Ilona Rolfes; Martin Hoffmann
		Z03 : Research Data Management for Terahertz Research	Stephanie Rehwald ; Seyed Yaser Moussavi Alashloo; Ilona Rolfes; Thomas Kaiser

Day	Time	MARIE M+S projects & 6GEM- Poster Corridor	
Tuesday	12:30 - 14:00 15:00 - 15:30	Title	Authors
		M01: Dynamic THz Measurements in the PreSyse Lab	Fawad Sheikh ; Andreas Prokscha; Yamen Zantah; Thomas Kaiser
		M02: Environmental Effects on Sub-THz Signal Propagation: A Comprehensive Study on FMCW Radar Performance	Francesca Schenkel ; Kristof Dausien; Javagar Mahendran; Tobias Körner; Ilona Rolfes; Christian Schulz
		M03: Functional Electromagnetic Signatures From Complex Volume Systems and Topological Material Properties	Daniel Erni ; Marvin Degen ; Karsten Kevin Jerbic; Jan Taro Svejda; Andreas Rennings; Vakhtang Jandieri
		M04: An Overview on Millimeterwave FMCW Radar Techniques for Precise Ranging and Material Imaging	Kristof Dausien ; Francesca Schenkel; Jochen Altholz; Lukas Piotrowsky; Nils Pohl; Jan Barowski
		M05: On the THz Characterization of Dielectric Objects in the Scope of Fire Detection	Tobias Kubiczek ; Thorsten Schultze; Jan C. Balzer
		S01: High-Speed Beamforming Concepts for THz Frequencies	Andreas Czyliwik ; Anna Lena Schall-Giesecke; Lisa Schmitt
		S02: Single Antenna Terahertz Sensing Using Preconfigured Metasurfaces	Furkan Ilgac ; Aydin Sezgin
		S03: Terahertz Defect Detection in Multi-Layer Materials Using Echo Labeling	Dogus Sevdiren ; Furkan Ilgac; Aydin Sezgin
		S04: MARIE-S04: Sub-Millimeter Localization With Minimum Infrastructure	Amani Atiani ; Ali Alhaj Abbas; Mohammed El-Absi; Thomas Kaiser
		S05: Towards Computing a Real-Time THz Material Map	Ensieh Aliagha ; Aman Batra; Ahmed Kamaleldin; Thomas Kaiser; Diana Goehringer
		6GEM: The Wideband Analysis of the Impact of I/Q Imbalance on THz Communication	Dogus Sevdiren ; Aydin Sezgin; Mohammad Soleymani
		Ping Pong Resilient THz-VNA Measurements	Fawad Sheikh ; Aman Batra; Yamen Zantah; Thomas Kaiser
		Design and Feasibility of Simple Reflective Electromagnetic Surfaces for Polarization Switching in Microwave to THz Frequencies	Dwi Andi Nurmantris ; Achmad Munir
		Extended Bandwidth Evaluation of Spearhead-Shaped Antennas to Support Terahertz Communications	Agus D. Prasetyo ; Sulistyaningsih Sulistyaningsih; Achmad Munir