

# **7th TransMIT Workshop on „Modern Spectroscopic Techniques“**

Fetovaia, Elba, Italy

02.05. – 08.05.2026

**Program**

## 2.5.: Saturday

TIME	PRESENTER	TOPIC	AFFILIATION	NR.
18:00	M. Koch	Welcome reception	U Marburg	01

## 3.5.: Sunday Chairman: Nico Vieweg

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	Martin Koch	Opening Remarks		02
9:30	Martin Koch	THz time-domain spectroscopy: the early years (part III)	U Marburg	03
10:05		<b>Coffee break</b>		
10:25	Demian Botros	Towards Comprehensive THz Spectroscopic Databases: A Reference Study on 81 Wood Species	U Marburg	04
11:05	Tobias Hofmann	Additive Optomechanics: Cost-Effective 3D-Printed Solutions for Optical Setups	U Marburg	05
11:35		<b>Coffee break</b>		
11:55	Maik Wehn	Moisture-Sensitive Measurements on Plants Using a 300 GHz On-Chip Radar	U Marburg	06
12:25	Felix Gorka	Optical Pump-THz probe spectroscopy on long time-scales	U Marburg	07
14:00-15:30	Martin Koch	Modern Spectroscopic techniques: quo vadis?	U Marburg	08

## 4.5.: Monday Chairman: Lars Liebermeister

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	C. Ellenberger	The Girl's day – Schülerinnen erhalten Einblicke in die MINT-Studiengänge	U Marburg	09
9:35	A. Kremper	Das Schülerforschungszentrum Mittelhessen - Eine Brücke zwischen Schule und Wissenschaft	Elisabethschule Marburg	10
10:10		<b>Coffee break</b>		
10:30	Lars Liebermeister	Dual-Comb THz Time-Domain Spectroscopy at 1 GHz Repetition Rate	Fraunhofer HHI Institut, Berlin	11
11:05	Open stage I	Pitch on the topic of lasers, optoelectronics, and spectroscopy by different workshop participants	all	12
11:35		<b>Coffee break</b>		
11:55	Yasaman Ghasempour	Physics-guided Wireless Communication and Sensing in the Sub-THz Regime	Princeton University	13

## 5.5.: Tuesday Chairman: Yasith Amarasinghe

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	M. Hofmann	Compact diode laser based THz systems	U Bochum	14
9:35	N. Vieweg	Testing 3D printed samples with terahertz technology	TOPTICA Photonics GmbH	15
10:10		<b>Coffee break</b>		
10:30	J. Balzer	Phaseless THz SAR: Towards Camera-Based 3D Terahertz Imaging	U Duisburg	16
11:05	Antonello Andreone	Tailoring mm-Wave/THz Beams by Liquid Crystal Assisted Reconfigurable Intelligent Surfaces	U Naples	17
11:40		<b>Coffee break</b>		
11:55	Yasith Amarasinghe	Luneburg Lens Applications for THz Region	U Marburg	18

## 6.5.: Wednesday Chairman: Martin Hofmann

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	Ioachim Pupeza	Research at the Laboratory of Lightwave Metrology	RPTU Kaiserslautern	19
9:35	Jan Ornik	FRS flow cytometry	Leibniz-IPHT Jena	20
10:10		<b>Coffee break</b>		
10:30	Rainer Heintzmann	Superresolution in optical imaging?	Leibniz Institute Jena	21
11:05	Pierre Kolejak	FRS Microscopy	RPTU Kaiserslautern	22
11:40		<b>Coffee break</b>		
11:55	F. Paries	Spatiotemporal Terahertz Emission Nanoscopy of Spintronic Photocurrents	Fraunhofer ITWM	23
14:30 - 16:00	Open stage II	Pitch on the topic of lasers, optoelectronics, and spectroscopy by different workshop participants	all	24
20:00	Rainer Heintzmann	Science on the beach	Leibniz Institute Jena	25

## 7.5.: Thursday Chairman: Antonello Andreone

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	Marcel Muth	Aus der Uni in die Schule: wissenschaftliches Arbeiten am Beispiel MikroPlastik in der Umwelt	Gymnasium am Mühlenburg	26
9:35	Marcel Muth	Schule MIT Wissenschaft	Gymnasium am Mühlenburg	27
10:10		<b>Coffee break</b>		
10:40	Sathurya Jegatheeswaran	Schüler*innen im Hörsaal: Juniorstudium, Workshops und Campusbesuche als Einstieg in die Ingenieurwissenschaften	U Lübeck	28
11:15	Bettina Limpert	Perspectives of fibre laser research	Active Fiber Systems	29
11:50		<b>Coffee break</b>		
12:10	Marco Kienel	Introducing IRScope GmbH	IRScope GmbH	30
14:00 - 16:30	Ioachim Pupeza	MIR spectroscopy: quo vadis?	RPTU Kaiserslautern	31

## 8.5.: Friday. Chairman: Jan Balzer

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	M. Högner	What is the best spectrometer?	RPTU Kaiserslautern	32
9:35	Martin Micica	From solid-state physics to femtosecond enhancement cavities	U Naples RPTU Kaiserslautern	33
10:10		<b>Coffee break</b>		
10:40	Konstantin Wenzel	Recent Developments in Optoelectronic cw THz Systems	Fraunhofer HHI Institut, Berlin	34
11:15	Michele Ortolani	Terahertz Metamaterials for Biosensing with Bound States in the Continuum	Sapienza University of Rome	35
11:50		<b>Coffee break</b>		
12:10	Fulvia Gennari	Terahertz Imaging with Integrated Semiconductor Sources	Italian Institute of Technology	36
12:45	Martin Koch	Closing remarks	U Marburg	37