

Seminar on Computational Laser Systems (Measurement Systems Seminar), SoSe 2023

Date: Monday, 3. DS., 11:10 – 12:40, BAR I88

Date	KW	Lecturer	Topic
03. April LB	14	Dr. Robert Kuschmierz	Introduction to Seminar & Presentation of Topics for Students in BAR I88
10. April	15	– no seminar –	Ostern
17. April	16	Elisabeth Berkholz (ES)	Multispectral Lensless Endoscopy (<i>Diploma thesis intermediate report</i>)
24. April	17	Bowen Yang (QZ)	Simulation Platform of Optical Fiber-based Quantum Communication System (<i>Defense of Studienarbeit</i>)
01. May	18	– no seminar –	„May Day“
08. May	19	Dr Wenfeng Xia King´s College London	Packing Sound and Light into Smart Needles for Surgical Guidance (ZOOM), (RK)
15. May	20	Bin Yang (JS) Yannick Lagler (JL)	Optical diffraction tomography based on illumination scanning (<i>Diploma thesis intermediate report</i>) Diffraction grating sensor for high-speed-rotor testing (<i>Diploma thesis intermediate report</i>)
22. May	21	Yuan Sui	High-fidelity spatial mode transmission through a multimode fiber using deep learning (<i>Defense of DA</i>)
29. May	22	– no seminar –	Pfingstmontag
05. June NK (Florida: JC)	23	Dr. Lars Büttner	Laser Safety & Hazardous Substances Briefing (only for MST members)
12. June	24	-	No show
19. June 9.20 Uhr BAR/I89	24	Prof. Heidi Ottevaere Vrije University Brussels	Biophotonics at Brussels Photonics and its Applications in Life Sciences and Medicine
19. June	25	Hannes Emmerich & Dr. Eric Starke Sick Engineering	Ultrasonic transducers in multiphase processes and flow measurements in challenging applications
23. June 11:10 Uhr BAR/218	25	Peter de Groot Zygo Corporation	Adventures in white-light interferometry
26. June	26	– no seminar –	World of Photonics Congress Munich
30. June 11:10 BAR 218	26	Prof. Liangcai Cao Tsinghua University	Digital holographic imaging technology based on compressive sensing and deep learning
03. July	27	Adam Pierce (FS) Uni. Cal. Berkeley Elisabeth Berkholz (ES)	All Digital Microwave Impedance Microscopy & Optogenetic Control of Contraction in Cardiomyocyte network Multispectral Lensless Endoscopy (<i>Defense DA</i>)
10. July	28	Till Schmidt Florian Reddig	Adaptive Loss Measurement of a Multi-Clad Fiber (<i>Defense Oberseminar ET/IT, Supervisor DP</i>) Softwarebasierte Korrektur beim Messen durch Wasseroberflächen (<i>Defense Oberseminar MT, Supervisor</i>)

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External lecturers are shown in bold, in green are checks and in red are changes. Attention: The seminar plan can be subject to short-term changes, see Internet. The slides should be written in English. The lectures can be presented either in German or English (save the slides in the intranet). Organization: Dr. L. Büttner, BAR 28, Tel. 463-35314

Structure of the talks: 1) Scientific Question; 2) State of the art / literature survey; 3) Problem / Hurdles; 4) Hypotheses / Methods / Advantages and Disadvantages; 5) Transfer to real-world applications / Requirement for implementation in applications; 6) Vision