

## Seminar on Computational Laser Systems (Measurement Systems Seminar), SoSe 2024

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

Date	WK	Lecturer	Topic
08. April (LB)	15	Dr. Robert Kuschmierz	Introduction to Seminar & Presentation of Topics for Students
15. April	16	<b>Prof. Lin Center for Systems Bi- ology, Harvard Uni.</b>	<b>In vivo flow cytometry: blood cell analysis without drawing blood (Student Chapter, KS,JD)</b>
19. April, 13:00, BAR 17	16	Ming Lin	Learningbasierte Optimierung einer Phasenmaske für 3D Bildgebung mit Neuronalen Netzen <i>(Defense of Studienarbeit (TG))</i>
<b>22. April</b>	<b>17</b>	<b>Ingo Langheinrich, polychip.ai</b>	<b>Threshold methods versus deep learning - when it makes sense to use "AI"-algorithms in machine monitoring RK)</b>
29. April	18	Yuezhen Xu	<i>t.b.a. (Defense of Studienarbeit (ZD))</i>
06. May (JC until 12:30)	19	Luca Linhsen	Endoskopische, konfokale Fluoreszenzbildgebung durch phasenkorrigierte Mehrkernfaserbündel (De-fense SA, ES)
13. May	20		
20. May	21	--	No Seminar: Pfingsten/ Pentecost
27. May	22		Rehearsal for Sensor-Nürnberg (ZC,JL, JL)...shift to internal seminar
03. June	23		
06. June, 10:00, BAR17			?
10. June	24	Hannes Bischoff  Tobias Irrgang	Compressive-Sensing zur Ultraschallbildgebung mit reduzierten Empfangskanälen, <i>Defense DA (DW)</i>  Ultraschallbildgebung mit Einkanal-Ultraschallköpfen durch komprimierende Multimode-Wellenleiter, <i>De-fense DA (DW)</i>
17. Jun	25	Dr. Lars Büttner	Laser Safety & Hazardous Substances Briefing (only for MST members)
24. June	26	-	- China -
01. July	27	NN	Reserved for project defenses
08. July	28	NN	Reserved for project defenses
15. July	29	-	

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