



Lecture Series " Neuroimaging Physics & Signal Processing: Electroencephalography and Magnetoencephalography " | Basic Course
May 7–May 18, 2020

	07 May 2020 <i>Seminar Room Dorothea Erxleben (C004)</i>	11 May 2020 <i>Seminar Room Dorothea Erxleben (C004)</i>	14 May 2020 <i>Lecture Hall Gustav Theodor Fechner</i>	18 May 2020 <i>Seminar Room Dorothea Erxleben (C004)</i>
09:00-10:30	Saskia Helbling Electroencephalography and Magnetoencephalography: Principles and Signal Generation	Burkhard Maess Event-related Signals: Averaging, Component Analysis, Statistics	Saskia Helbling Source Analysis I: Overview and Head Modeling	Thomas Knoesche Dynamic Modeling
10:30-10:45	Break	Break		Break
10:45-12:15	Thomas Knoesche Electroencephalography: Instrumentation and Recording	Saskia Helbling Analysis of Brain Oscillations	Burkhard Maess Source Analysis II: Focal Sources – Dipole Fitting and Scanning Methods	Thomas Knoesche Discussion: EEG and MEG in Relation to other Brain Imaging Techniques
12:15-13:00	Lunch		Lunch	
13:00-14:30	Saskia Helbling Magnetoencephalography: Instrumentation and Recording		Burkhard Maess Source Analysis III: Distributed Source Models	
14:30-14:45	Break		Break	
14:45-16:15	Burkhard Maess Spontaneous Signals and Basic Signal Processing: Filtering, Artefact Treatment, Interpolation, etc		Thomas Knoesche Connectivity Analysis	

Organizer

International Max Planck Research School on Neuroscience of Communication: Function, Structure, and Plasticity (IMPRS NeuroCom)

Venue

Max Planck Institute for Human Cognitive and Brain Sciences, Lecture Hall, Stephanstrasse 1a, 04103 Leipzig

Credit Points

In order to receive ECTS (2.0 ECTS CP) participants have the opportunity to actively participate in a literature seminar (Date: 23 June 2020, Seminar Room Charlotte Buehler, C402)

Contact

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