



IMPRS NeuroCom Lecture Series
" Neuroimaging Physics & Signal Processing:
Electroencephalography and Magnetoencephalography"
Basic Course

30 April – 28 May 2021

Date	Time	Topic	Lecturer
30 April	09.00-10.30	Electroencephalography and Magnetoencephalography: Principles and Signal Generation	Thomas R. Knoesche
	11.00-12.30	Electroencephalography: Instrumentation and Recording	
04 May	09.00-10.30	Magnetoencephalography: Instrumentation and Recording	Burkhard Maess
	11.00-12.30	Spontaneous Signals and Basic Signal Processing: Filtering, Artefact Treatment, etc	
07 May	09.00-10.30	Event-related Signals: Averaging, Component Analysis, Statistics	Burkhard Maess
	11.00-12.30	Analysis of Brain Oscillations	Thomas R. Knoesche
11 May	09.00-10.30	Source Analysis I: Overview and Head Modeling	Burkhard Maess
	11.00-12.30	Source Analysis II: Focal Sources – Dipole Fitting and Scanning Methods	
18 May	09.00-10.30	Source Analysis III: Distributed Source Models	Burkhard Maess
	11.00-12.30	Connectivity Analysis	Thomas R. Knoesche
28 May	09.00-10.30	Dynamic Modeling	Thomas R. Knoesche
	11.00-12.30	Discussion: EEG and MEG in Relation to other Brain Imaging Techniques	

Organiser

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

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Venue

Most presumably the lecture series will take place virtually. The link to the virtual class room will be shared with registered participants only.

Registration

Any interested student and researcher is invited to participate. Please register here:

<https://survey3.gwdg.de/index.php?r=survey/index&sid=118222&lang=en>

***Credit Points**

Participants have the possibility to receive 2 ECTS CPs. The conditions for receiving CPs will be specified at the beginning of the lecture series.