



**IMPRS on Cognitive NeuroImaging
Module 2: Basic Course
Basics of (functional) Magnetic Resonance Imaging**

30 June–03 July 2025 & 30 July 2025

Date	Time	Lecturer	Topic	What	Venue
30 June	13:00–14:30	Prof. Karsten Mueller	Math update	Lecture	MPI CBS, Computer Training Room, A412
	14:45–16:15	Dr Evgeniya Kirilina	MR imaging and physics basics	Lecture	
01 July	09:00–10:30	Dr Evgeniya Kirilina	Structural MRI	Lecture	
	10:30–12:00	Prof. Karsten Mueller	Analysis of structural MRI data	Lecture	
	13:00–14:30	Dr Evgeniya Kirilina	Scanning: Acquisition of a structural MRI data set	Hands-on	MPI CBS, Scanning Area
	14:45–16:15	Prof. Karsten Mueller	Analysis of a structural MRI data set	Hands-on	MPI CBS, Computer Training Room, A412
02 July	09:00–10:30	Dr Evgeniya Kirilina	Functional MRI	Lecture	MPI CBS, Computer Training Room, A412
	10:30–12:00	Prof. Karsten Mueller	Analysis of fMRI data	Lecture	
	13:00–14:30	Dr Evgeniya Kirilina	Scanning: Acquisition of functional MRI data (3T and 7T)	Hands-on	MPI CBS, Computer Training Room, A412
	14:45–16:15	Prof. Karsten Mueller	Hands-on: Analysis of functional MRI data	Hands-on	MPI CBS, Scanning Area
03 July	08:30–10:00	Dr Evgeniya Kirilina	Diffusion-weighted MRI	Lecture	MPI CBS, Computer Training Room, A412
	10:00–11:30	Prof. Karsten Mueller	Analysis of Diffusion-weighted MRI data	Lecture	
	13:00–14:30	Dr Evgeniya Kirilina	Scanning: Acquisition of Diffusion-weighted MRI data (Connectom)	Hands-on	MPI CBS, Scanning Area
	14:45–16:15	Prof. Karsten Mueller	Hands-on: Analysis of Diffusion-weighted MRI data	Hands-on	MPI CBS, Computer Training Room, A412
04–14 July	Homework/assignment				
30 July	13:00–14:30	Prof. Karsten Mueller/ Dr Evgeniya Kirilina/ Dr Nico Scherf		Feedback session homework	MPI CBS, Charlotte Bühler Room C402

Organiser: International Max Planck Research School on Cognitive NeuroImaging (IMPRS CoNI)
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Social Media:  

Target group: Doctoral researchers of IMPRS CoNI; participation from external students is possible, however they need an IMPRS CoNI faculty member endorsing their participation

Maximum number of participants: 16

Registration: Open Campus (DRs of IMPRS CoNI) / contact imprs-coni@cbs.mpg.de (other interested students from partner institutions of IMPRS CoNI)

Location: Different rooms at Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

Credit points: Participants have the possibility to receive 2 ECTS CPs. Conditions: 80% attendance and submission of homework (protocol of analysis of sample data set)

