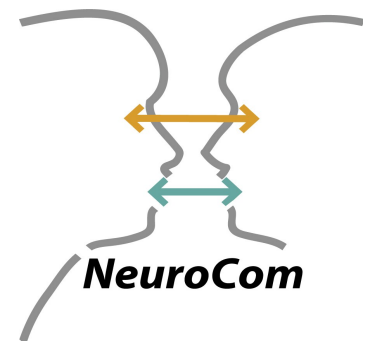


# Lecture *Methods*

## Course 1

### Location

Max Planck Institute for Human Cognitive and Brain Sciences  
Stephanstrasse 1A  
Lecture Hall



<b>Jan 14, 2013</b>		
09:15-10:45	Prof. Dr. Robert Turner (MPI CBS)	Signal sources and principles of neuroimaging
11:00-12:30	PD Dr. Gabriele Lohmann (MPI CBS)	Basic math refresher course
<b>Jan 21, 2013</b>		
09:15-10:45	Dr. Jessica Schulz (MPI CBS)	Nuclear spins and magnetic resonance
11:00-12:30	Dr. Jessica Schulz (MPI CBS)	Coherence, relaxation and spin echoes
<b>Jan 28, 2013</b>		
09:15-10:45	Prof. Dr. Harald Möller (MPI CBS)	Spacial encoding and magnetic resonance imaging (MRI)
11:00-12:30	Prof. Dr. Harald Möller (MPI CBS)	Basic imaging pulse sequences
<b>Feb 4, 2013</b>		
09:15-10:45	Prof. Dr. Harald Möller (MPI CBS)	Hemodynamic response and BOLD contrast
11:00-12:30	Prof. Dr. Harald Möller (MPI CBS)	Imaging of cerebral blood flow and cerebral blood volume
<b>Feb 11, 2013</b>		
09:15-10:45	PD Dr. Gabriele Lohmann (MPI CBS)	Image registration and normalization
11:00-12:30	PD Dr. Gabriele Lohmann (MPI CBS)	Preprocessing and statistical evaluation of functional data
<b>Feb 18, 2013</b>		
09:15-10:45	Prof. Dr. Hellmuth Obrig (MPI CBS)	Imaging based on near infrared spectroscopy (NIRS)
11:00-12:30	Prof. Dr. Gerik Scheuermann (UL)	Visualization concepts for neuroimaging
<b>Feb 25, 2013</b>		
09:15		Written exam