



Workshop programme

Measurement, Processing and Analysis of Neuroimaging and Electrophysiological Data

11. – 12.11.2015

	Wednesday 11.11.2015	Thursday 12.11.2015
8:00	Registration of participants	Registration of participants
8:15		
8:30		
8:45		
9:00	Introduction and practical information	Diffusion imaging
9:15	Morphometric methods	
9:30		
9:45		
10:00		
10:15	Coffee break	Coffee break
10:30	fMRI basics - principles, data preprocessing, statistical analysis	Basic and advanced EEG processing and analysis
10:45		
11:00		
11:15		
11:30		
11:45	Lunch	Lunch
12:00		
12:15		
12:30		
12:45		
13:00	Dealing with artifacts in fMRI	Simultaneous measurement of physiological signals and fMRI
13:15		
13:30		
13:45		Coffee break
14:00		
14:15	Coffee break	Practical part - measurement at EEG and MR laboratory
14:30		
14:45		
15:00		
15:15		
15:30	Functional and effective brain connectivity in fMRI	Possible issues during preparation of experiments, measurement, preprocessing or statistical analysis of the data
15:45		
16:00		
16:15		
16:30		



Speakers

Morphometric methods

- Radek Mareček
- Nikoletta Szabó

Basic fMRI

- Michal Mikl (Principles, experiment and interpretation issues, resting state fMRI)
- Martin Lamoš (Data preprocessing)
- Martin Gajdoš (Statistical analysis)

Dealing with artefacts in fMRI

- Marek Bartoň (Physiological artefacts suppression in fMRI data with/without usage of physiological recordings)
- Michal Mikl (Mapping and suppression of movement artefacts in fMRI data)

Functional and effective brain connectivity in fMRI

- Martin Gajdoš (Dynamic Causal Modelling, Granger Causality)
- Marek Bartoň (Seed analysis, Psychophysiological Interactions)
- Tomáš Slavíček (Independent Component Analysis)
- Jan Fousek (Graph Theory)

Diffusion imaging

- Lubomír Vojtíšek
- Nikoletta Szabó

Basic and advanced EEG processing and analysis

- Martin Lamoš
- Petr Klimeš

Simultaneous measurement of physiological signals and fMRI

- Radek Mareček
- Martin Lamoš

Practical part - measurement in EEG and MR laboratory

- Lubomír Vojtíšek
- Petr Kudlička
- Martin Lamoš
- Radek Mareček
- Marek Bartoň
- Martin Gajdoš

Possible issues during preparation of experiments, measurement, preprocessing or statistical analysis

- Marek Bartoň
- Martin Gajdoš
- Martin Lamoš
- Michal Mikl