

2nd Belgian neuroinformatics meeting
Scientific program

December 4th 2015

The Irish College, Leuven

Large scale cerebral networks

8:30-9:00: Welcome coffee and registration

9:00-9:15: Opening, Introductory remarks

9:15-10:00: **Keynote lecture 1: Rainer Goebel**, Maastricht University - Revealing mesoscopic coding principles in the human brain using ultra-high magnetic field fMRI

10:00-10:30: **Michele Giugliano**, University of Antwerp - Correlation transfer by cortical neurons

10:30-11:00: **Ben Jeurissen**, University of Antwerp - Processing multi-shell diffusion MRI data using MRtrix3

11:00-11:30: Coffee break

11:30-12:00: **Dante Mantini**, KU Leuven - Long-range functional interactions in the resting human brain

12:00-12:45: **Keynote lecture 2: Pascal Fries** - Rhythms for Cognition: Communication through Coherence

12:45-14:45: Lunch and poster session

14:45-15:15: **Dimiter Prodanov**, IMEC - Applications of multiscale segmentation and classification approaches to histological images

15:15-15:45: **Daniele Marinazzo**, Ugent - Detecting the hemodynamic response function in resting state fMRI: methodology and applications

15:45-16:00: **Davide Ciliberti**, NERF, KULeuven - Real-time decoding and identification of memory-related hippocampal spike patterns

16:00-16:15: **Marije Ter Wal**, Donders (NL) - Robust characterization of network structure in intracranial EEG data using consensus-based partial coherence

16:15-16:45: Coffee break

16:45-17:00: **Jasper Degryse**, Ugent - Prospective power estimation for peak inference with the toolbox Neuropower

17:00-17:15: **Birgit Plantinga**, TU Eindhoven (NL) - High Resolution Imaging of the Human Subthalamic Nucleus Network

17:15-18:00: **Keynote lecture 3: Matthew Self**, NIN, KNAW (NL) - Spiking activity and gamma oscillations from human visual cortex

18:00-18:15: Closing remarks

18:15 - 19:15: Closing reception

