

# RESTING STATE fMRI

## September 12 -13, 2019

### Day 1:

#### Registration

Session 1: Introduction

Introduction on resting state

**Ilya Veer** (Charité Universitätsmedizin, Berlin, Germany)

Historical perspective on Default Mode Network

**Martin Walter** (University of Tübingen, Tübingen, Germany)

Data acquisition and preprocessing

**Christian Windischberger** (Medical University of Vienna, Austria)

Panel discussion morning talks

#### Lunch

Session 2: Data generation and noise control

Physiological noise(correction)

**Vinod Kumar** (The Max Planck Institute for Biological Cybernetics, Tübingen, Germany)

Predefined parcellation schemes or personalized parcellation schemes?

**Vinod Kumar, Meng Li** (The Max Planck Institute for Biological Cybernetics, Tübingen, Germany)

Local vs. global resting state features

**Meng Li** (The Max Planck Institute for Biological Cybernetics, Tübingen, Germany)

*Panel discussion afternoon talks*

Welcome reception and social night

## **Day 2:**

Morning coffee

### Session 3: Connectivity Methods:

Method 1: Independent component analysis

**Vesa Kiviniemi** (Oulu University Hospital, Oulu, Finland)

Method 2: Complex network (graph) analysis

**Johan Kruschwitz** (Charité Universitätsmedizin, Berlin, Germany)

Method 3: Dynamic connectivity and task-rest interactions

**Gabriele Lohmann** (The Max Planck Institute for Biological Cybernetics, Tübingen, Germany)

## **lunch**

Session 4: Applications:

Physiological brain pulsations - a view from multimodal neuroimaging.

**Vesa Kiviniemi** (Oulu University Hospital, Oulu, Finland)

Mood disorders – examples from Psychiatry

**Martin Walter** (University of Tübingen, Tübingen, Germany)

Panel discussion of afternoon talks

Session 5:

Individual problem solving between faculty and participants

**All faculty**

**Farewell**