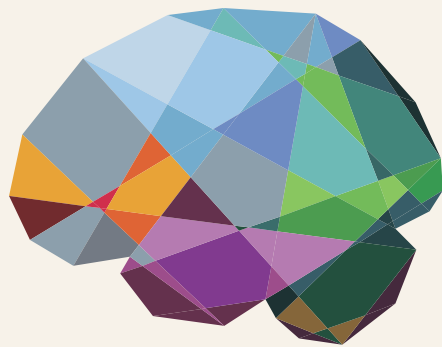


FEB  
26th  
2018

# NODE #6 BERLIN

## PRACTICAL BRAIN NETWORK MODELING



## THEVIRTUALBRAIN.

Get up to speed about the fundamental principles of full brain network modeling using the open-source neuroinformatics platform The Virtual Brain (TVB).

TVB enables biologically realistic modeling of network dynamics using Connectome-based approaches across different brain scales.

Generate macroscopic neuroimaging signals incl. fMRI, intracranial and stereotactic EEG, surface EEG and MEG for single subjects.

### MORE INFORMATION & REGISTRATION: [WWW.THEVIRTUALBRAIN.ORG/NODE6](http://WWW.THEVIRTUALBRAIN.ORG/NODE6)

A workshop hosted by the TVB team at:  
Charité – Universitätsmedizin Berlin  
& Berlin Institute of Health  
Charitéplatz 1  
On Campus: Bonhoefferweg 3, Dept. Neurology  
("Alte Nervenlinik")  
3rd floor, Room: Seminarraum 3  
10117 Berlin, Germany

Morning sessions from 9:00 to 13:00

Introduction to workshop & coffee

**A generative model of the brain: Describing the building blocks of a brain network model**

Basic principles and assumptions, recent studies with different local models, approximation of neural fields

**Interacting with TVB**

Working with the web UI, command line and scripting interfaces

**Constructing personalized models from empirical data**

### ENJOY A FULL-DAY WORKSHOP MEET LEADING EXPERTS IN NEUROSCIENCE

Afternoon sessions from 14:00 to 18:45

**Brain stimulation in TVB**

Understanding data formats and setting up pipelines for data extraction

**Clinical applications of TVB**

Modeling a resting state brain and exploring its dynamics

**Hands-on Session**

Using the GUI and demo scripts to simulate epilepsy, stroke, brain stimulation and a mouse model