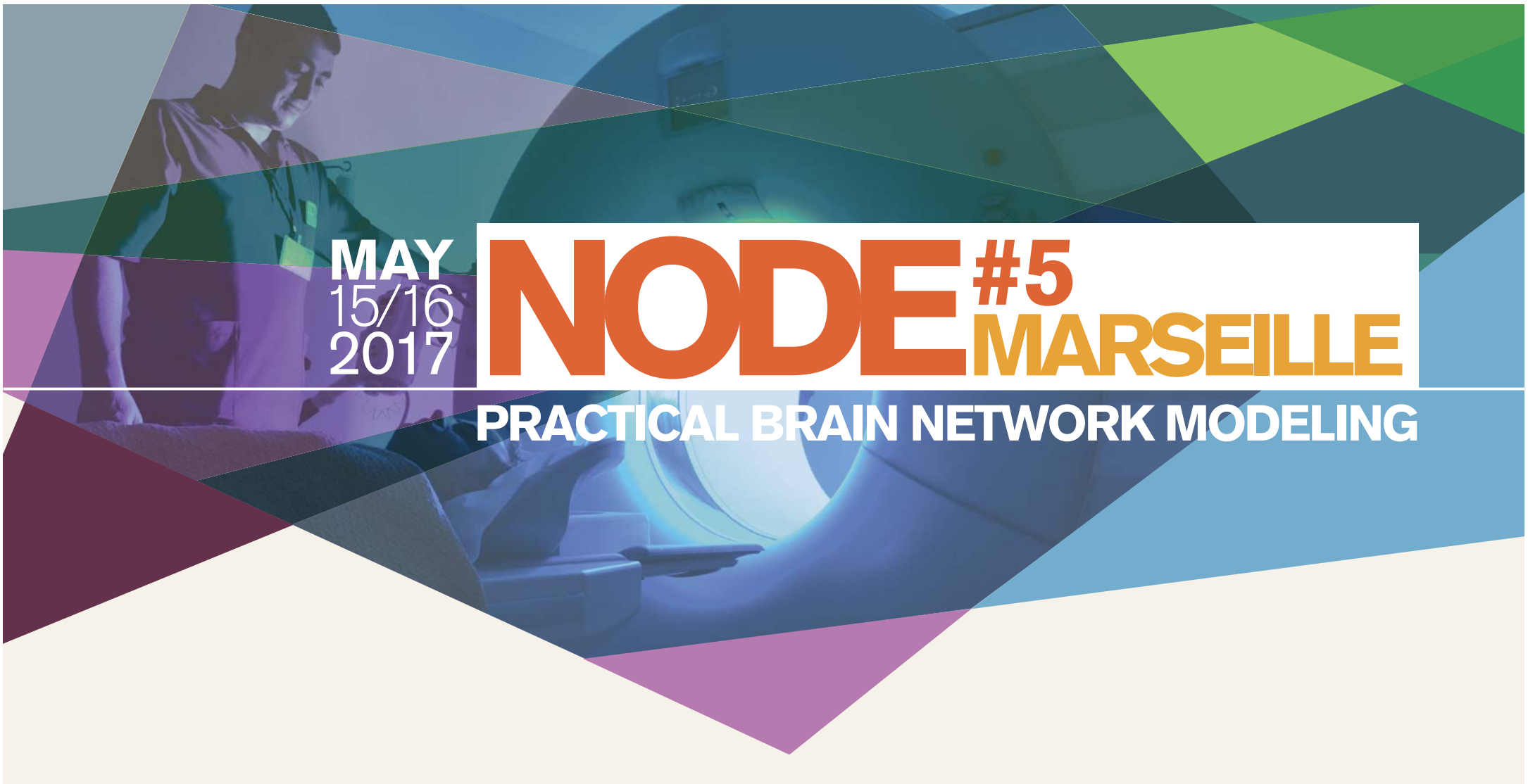

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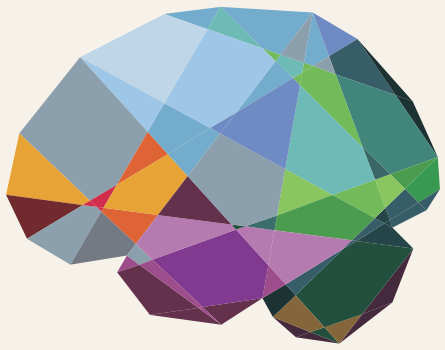
2017

NODE #5 MARSEILLE

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.

Day 1 sessions from 8:30 to 17:20

- A generative model of the brain: Describing the building blocks of a brain network model
- Architecture of TVB
- Hands-on: Interacting with TVB using GUI
- Hands-on: Interacting with TVB using CLI
- From imaging data to TVB datasets: conceptual introduction
- From imaging data to TVB datasets
- Hands-on: Further topics in preprocessing imaging data
- Hands-on: Bring your own data: preprocessing

ENJOY A TWO-DAY WORKSHOP
MEET LEADING EXPERTS IN NEUROSCIENCE

Day 2 sessions from 8:30 to 17:20

- Data fitting: theoretical background
- Modeling resting state networks
- Investigating the effect of strokes using TVB
- Hands-on: Modeling epilepsy
- Hands-on: Modifying TVB code and implementing new features
- Hands-on: Bring your own data

MORE INFORMATION & REGISTRATION:
WWW.THEVIRTUALBRAIN.ORG/NODE5

A workshop hosted by the TVB team at:
Aix-Marseille University
Faculty of Medicine at La Timone
27 Boulevard Jean Moulin
Pedagogical Building, Room 202
13005 Marseille, France