

# Workshop: Structural learning by the brain

## Monday March 6

- 9:00 Welcome coffee
- 9:30-10:30 Olivier Faugeras: Mathematical neuroscience
- 10:30-11:00 Coffee break
- 11.00-12.00 Risto Ilmoniemi: Randomness in the brain: TMS versus sensory stimulation
- 12:00-12:20 Group photo
- 14:45-15:00 Présentation de l'équipe de l'IHP par directeur adjoint de l'IHP Pr. Dominique Mouhanna
- 15:00-16:00 Florent Meyniel: Is human statistical learning Bayesian?
- 16:00-16:30 Coffee break
- 16:30-17:30 Sonja Gruen: Higher-order spike patterns in cortex and models

## Tuesday March 7

- 9:30-10:30 Gilles Laurent: Exploring the space of neural systems dynamics
- 10:30-11:00 Coffee break
- 11.00-12.00
- 15:00-16:00 Wojciech Szpankowski: Structural and temporal information
- 16:00-16:30 Coffee break
- 16:30-17:30

## Wednesday March 8

- 9:30-10:30 Leonardo Cohen: Consolidation of human skill linked to waking hippocampo-neocortical replay
- 10:30-11:00 Coffee break
- 11.00-12.00 Vikram Chib: Subjective valuation of effort.
- 15:00-16:00 Claudia D. Vargas: The goal-keeper game: predicting upcoming events by the brain.
- 16:00-16:30 Coffee break
- 16:30-17:30 Bill Lytton: Avalanches in primary motor cortex

## **Thursday March 9**

- 9:30-10:30 Marcela Svarc: EEG clustering and data compression by the brain
- 10:30-11:00 Coffee break
- 11:00-12:00 Daniel Fraiman: An ANOVA approach for statistical comparisons of brain networks
- 15:00-16:00 Oswaldo Baffa: Retrieving context tree models driven by structured TMS pulse sequences
- 16:00-16:30 Coffee break
- 16:30-17:30 Viktor Jirsa: The Virtual Brain in Applications to Medicine
- 17:30-19:30 Cocktail and poster session with a short oral introduction: Fernando Najman, Paulo Passos, Bia Ramalho, Victor Hugo Souza, Noslen Hernández, Renan Shimoura, Raquel Carvalho

## **Friday March 10**

- 9:30-10:30 Christophe Pouzat: Where data come from and what do we model?
- 10:30-11:00 Coffee break
- 11:00-12:00 Maria Elisa Pimentel et Rafael Stern: The Goalkeeper Game: A new assessment tool for prediction of gait performance under complex condition in people with Parkinson's disease
- 15:00-16:00 Antoine Triller: Synaptic receptors movement and brain diseases.
- 16:00-16:30 Coffee break
- 16:30-17:30 Yves Frégnac: Beyond the Metaphor between the digital Computer and the biological brain : the myth of artificial consciousness