8:30  Coffee and croissants

9:00-11:00: Chairperson: Claude Meunier (CNPP, Paris Descartes U.)

9:00-10:00   Huizhong W. Tao (USC, Los Angeles)
Synaptic mechanisms for visual information processing in mouse cortex

10:00-10:30 Lionel Nowak (CERCO, Toulouse)
Mechanisms underlying contrast-dependent receptive field expansion/contraction

10:30-11:00 Frédéric Chavane (INT, Marseille)
Normalization and suppression within maps of awake monkey V1

11:00-11:30 Coffee break

11:30-12h45 Chairperson: Laurent Perrinet (INT, Marseille)

11:30-12:15 David Hansel/Carl van Vreeswijk (CNPP, Paris Descartes U.)
On selectivity, balance and maps

12:15-12h45 Jonathan Touboul (Collège de France, Paris)
Collective phenomena in large neural networks: the role of noise, heterogeneity and balance in the emergence of synchronized activity

12:45-14:15 Lunch

14:15-15:15 Chairperson: Ivo Vanzetta (INT, Marseille)

Cyril Monier*, Julien Fournier and Yves Frégnac (UNIC, Gif/Yvette)
Role of transient imbalance between excitation and inhibition in the temporal precision of the neural code in the early visual system

15:15-15:45 Coffee break

15:45-16:45 Chairperson: Dan Shulz (UNIC, Gif/Yvette)

Li I. Zhang (USC, Los Angeles)
Functional synaptic circuitry of the auditory cortex