



# Mathematics of the brain

DECEMBER 8TH, 2015



Collège de France, 11 Place Marcelin Berthelot, Paris  
**Seminar Room D2**

09:15- 10:00 Bruno Cessac (Inria Sophia Antipolis, NeuroMathComp)  
*Statistical Analysis of Spike Trains in Neuronal Networks*

10:15 – 11:00 Olivier Marre (Institut de la Vision)  
*Multiplexing motion in the retina*

11:15 – 12:00 Srdjan Ostojic (GNT, ENS)  
*Intrinsically generated fluctuations in excitatory-inhibitory networks*

*Lunch Break*

14:00-14:45 Bastien Fernandez (LPMA, CNRS, U. Paris Diderot and UPMC)  
*Transition to Massive Clustering in Populations of Degrad-and-fire Oscillators*

15:00-15 :45 Michael Graupner (U. Paris Descartes)  
*Calcium as trigger of synaptic plasticity*



Information – organization: Khashayar Pakdaman (IJM) & Jonathan Touboul (CIRB & Inria)