



2^{ème} Journée Biologie & Mathématiques

Organisateurs : Gérard Berry, Amaury Lambert, Alain Prochiantz, Jonathan Touboul

28 octobre 2014

CIRB – Collège de France
Salle 5

09h10-09h55 François Fages (INRIA)

Cells as machines: Towards deciphering biochemical programs in the cell

10h00-10h45 Martine Ben Amar (ENS)

Morphogenesis: From tissues to organs

10h50-11h10 pause

11h10-11h55 Ivan Junier (CRG, Barcelone & ISC-PIF)

Statistics of genome evolution: Insights into the integrated functioning of bacteria

12h00-12h45 Giambattista Giacomini (LPMA - Université Paris-Diderot)

On the long time behavior of the Kuramoto synchronization model

14h10-14h55 David Holcman (CNRS & ENS)

Recovering network connectivity from resolving of the entire spectrum of the Fokker-Planck for the stochastic depression-facilitation dynamics

15h00-15h45 Jonathan Touboul (INRIA & CIRB)

The Pinwheel-Dipole structure of neocortex: Exhaustivity, parsimony and balanced detection

15h50-16h10 pause

16h10-16h55 Yves Frégnac (UNIC-CNRS)

Hidden complexity in visual receptive fields

17h00-17h45 Jean-Jacques Slotine (MIT)

Collective computation in nonlinear networks and the grammar of evolvability

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