

« **Disordered Systems, Random Spatial Processes and Some Applications** »  
Paris, January 5<sup>th</sup> – April 3<sup>rd</sup>, 2015

**Workshop**  
« **Statistical Physics Methods in Social and Economic Systems** »  
Paris, January 26<sup>th</sup> – 30<sup>th</sup>, 2015  
**Amphithéâtre Hermite**



**ORGANIZERS**

**Jean-Pierre Bouchaud** (École Polytechnique Paris)  
**Pierluigi Contucci** (University of Bologna)  
**Cristian Giardinà** (Alma Mater Studiorum Università di Bologna)

**Pierre Nolin** (ETH Zurich)  
**Vladas Sidoravicius** (IMPA Rio de Janeiro)  
**Vincent Vargas** (ENS Paris)

**SPEAKERS**

**Adiano Barra** (University of Rome La Sapienza)  
**Domenico Delli Gatti** (University Cattolica of Milan)  
**Jonathan Donier** (Paris 6)  
**Micaela Fedele** (University of Bologna)  
**Mauro Gallegati** (University of Ancona)  
**Stanislao Gualdi** (CentraleSupélec)

**Paolo Jensen** (ENS Lyon)  
**M. Marsili** (ICTP Trieste)  
**Jean-Pierre Nadal** (ENS Paris)  
**Lorenzo Pareschi** (University of Ferrara)  
**Maurizio Pisati** (University of Milan)  
**Mario Rasetti** (ISI Turin)  
**Sidney Redner** (Santa Fe Institute)

**Richard Sandell** (University of Madrid Carlos III)  
**Alina Sirbu** (University of Bologna)  
**Matteo Smerlak** (Perimeter Institute)  
**Giuseppe Toscani** (University of Pavia)  
**Cecilia Vernia** (University of Modena and Reggio Emilia)

## PROGRAM

### Monday January 26<sup>th</sup>

09.00 am – 09.30 am	<b>Registration – IHP Ground floor</b>	
09.30 am – 10.30 am	<b>Jean-Pierre Nadal</b>	Entanglement between Demand and Supply in Markets with Bandwagon Goods.
10.30 am – 11.00 am	Coffee break	IHP Ground floor
11.00 am – 12.00 pm	<b>Matteo Smerlak</b>	Thermodynamics of economic inequalities: precariousness, volatility and stratification.
12.00 pm – 02.00 pm	Lunch break	
02.00 pm – 03.00 pm	<b>Lorenzo Pareschi</b>	Mean field and Boltzmann control of socio-economic systems.
03.00 pm – 04.00 pm	<b>Giuseppe Toscani</b>	Wealth and knowledge in multi-agent systems. A Kinetic approach.
04.00 pm – 04.30 pm	Coffee break	IHP Ground floor

### Tuesday January 27<sup>th</sup>

09.30 am – 10.30 am	<b>Cecilia Vernia</b>	Trust social network from collective data: interaction vs independence, connectedness vs fragmentation.
10.30 am – 11.00 am	Coffee break	IHP Ground floor
11.00 am – 12.00 pm	<b>Adriano Barra</b>	Insights in Economical Complexity: the hidden role of migrants small worlds.
12.00 pm – 02.00 pm	Lunch break	
02.00 pm – 03.00 pm	<b>Alina Sirbu</b>	A new dimension for democracy: egalitarianism in the rank aggregation problem.
03.00 pm – 04.00 pm	<b>Matteo Marsili</b>	Lost in diversification.
04.00 pm – 04.30 pm	Coffee break	IHP Ground floor

### Wednesday January 28<sup>th</sup>

09.30 am – 10.30 am	<b>Mauro Gallegati</b>	The Economics in Crisis.
10.30 am – 11.00 am	Coffee break	IHP Ground floor
11.00 am – 12.00 pm	<b>Domenico Delli Gatti</b>	Macroeconomic Debates: The State of the Art and the Computational Way Ahead.
12.00 pm – 01.00 pm	<b>Jonathan Donier</b>	How people's decisions impact prices: Empirical evidence and theory of a square root.

**FREE AFTERNOON**

## Thursday January 29<sup>th</sup>

09.30 am – 10.30 am	<b>Sidney Redner</b>	Statistics of Basketball Scoring and Lead Changes.
10.30 am – 11.00 am	Coffee break	IHP Ground floor
11.00 am – 12.00 pm	<b>Paolo Jensen</b>	Are models drawn from physics relevant for social systems?
12.00 pm – 02.00 pm	Lunch break	
02.00 pm – 03.00 pm	<b>Micaela Fedele</b>	Interacting Models in Social Sciences and Health Screening Campaigns.
03.00 pm – 04.00 pm	<b>Posters session</b>	
04.00 pm – 04.30 pm	Coffee break	IHP Ground floor
05.00 pm – 06.00 pm	<b>Jean-Philippe Bouchaud</b> <b>Public lecture</b>	Crises économiques et financières : un point de vue de physicien.
<b>06.30 pm</b>	<b>Cocktail</b>	<b>IHP Ground floor</b>

## Friday January 30<sup>th</sup>

09.30 am – 10.30 am	<b>Richard Sandell</b>	Why Sociologists should (and increasingly want to) “make out” with the hard sciences.
10.30 am – 11.00 am	Coffee break	IHP Ground floor
11.00 am – 12.00 pm	<b>Maurizio Pisati</b>	The Unbearable Lightness of the Social Sciences: Current Practices and Possible Futures.
12.00 pm – 02.00 pm	Lunch break	
02.00 pm – 03.00 pm	<b>Stanislao Gualdi</b>	Tipping points and monetary policy in a stylized macroeconomic agent-based model resume.
03.00 pm – 04.00 pm	<b>Mario Rasetti</b>	The Topological Field Theory of Data: a program towards a new strategy for data mining.
04.00 pm – 04.30 pm	Coffee break	IHP Ground floor