

# : Interactions :

*Mathematical Sciences  
to the proof of  
Human & Social Sciences*

Paris, May 28th & May 29th, 2015

Faculté de Droit du Panthéon  
Université de Paris Panthéon-Sorbonne

12 pl. du Panthéon - Paris 5e

## **: INTERACTIONS :**

### **Session 1 – Centre Panthéon, Salle 2 – Thursday 28 May**

2.30pm Welcome Coffee

3.00pm *Urban hierarchies and city boundaries through percolation theory and fractals*

Dr Elsa Arcaute - Lecturer in Spatial Modelling and Complexity

Centre for Advanced Spatial Analysis, University College London, UK

4.00pm Coffee Break

4.30pm *Collective modes and resonances in human behavior*

Dr Alberto Hernando de Castro – Researcher

Social Thermodynamics Applied Research, EPF Lausanne, Switzerland

### **Session 2 – Centre Panthéon, Salle 2 – Friday 29 May**

2.00pm *The structure of human trafficking:*

*lifting the bonnet on a Nigerian transnational network*

Dr Paolo Campana – Lecturer

Institute of Criminology, University of Cambridge, UK

3.00pm *User-based representation*

*of time-resolved multimodal public transportation networks*

Dr Laetitia Gauvin - Researcher

ISI Foundation, Turin, Italy

4.00pm Coffee Break

4.30pm *Modeling the emergence of contact languages*

Prof Vittorio Loreto - Professor of Physics of Complex Systems

Sapienza University, Roma, Italy

ISI Foundation, Turin, Italy

Sony Computer Science Lab, Paris, France

5.30pm Closing address

**Cocktail – Centre Panthéon, Salle Goullencourt – 6pm, Friday 29 May**