University of Minho
School of Economics and Management (EEG)
Room 1.01

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Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

Programme

HOUR	Monday 28th	Tuesday 29th	Wednesday 30th
09:20-09:30	Reception		
09:30-10:00	Gunter Schutz	Giada Basile	Yann Brenier
10:00-10:30	Milton Jara	François Huveneers	Bernt Wenberg
10:30-11:00	Coffee-break	Coffee-break	Coffee-break
11:00-11:30	MINI-COURSE	MINI-COURSE	Rui Vilela Mendes
11:30-12:00	José Carrillo	José Carrillo	Stefano Olla
12:00-12:30	LECTURE 1	LECTURE 2	Christophe Bahadoran
12:30-14:30	LUNCH	LUNCH	LUNCH
14:30-15:00	MINI-COURSE	MINI-COURSE	Hendrik Weber
15:00-15:30	François Delarue	François Delarue	Cédric Bernardin
15:30-16:00	LECTURE 1	LECTURE 2	Oriane Blondel
16:00-16:30	Jose Canizo	Valeria Ricci	Nicolas Perkowski
16:30-17:00	Marzia Bisi	Maria Groppi	François Golse
17:00-17:30	Coffee-break	Coffee-break	Coffee-break
17:30-18:00			Eric Carlen
17:30-17:50	Byron Oviedo	Cinzia Soresina	
17:50-18:10	Conrado Costa	Clément Erignoux	
20:00	Social Dinner		

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Byron Oviedo (University of Nice, France)

Title: Fractional Fick's law for the boundary driven exclusion process with long jumps

Abstract: A fractional Fick's law and fractional hydrostatics for the one dimensional exclusion process with long jumps in contact with infinite reservoirs at different densities on the left and on the right are derived in this presentation. In the first part it will be described precisely the model studied and the results obtained. In the second one we will recall basic facts on the fractional Laplacian and explain what we mean by stationary solution of a fractional diffusion equation with Dirichlet boundary conditions. The last part it will be devoted to the comments on the proofs of the results.

Nicolas Perkowski (Humboldt-Universitt zu Berlin)

Title: Weak KPZ universality via energy solutions and chaos decompositions

Abstract: The weak KPZ conjecture claims that the fluctuations of weakly asymmetric interface growth models are universally described by the KPZ equation. Recently significant process has been made on this problem with the help of energy solutions and the second order Boltzmann-Gibbs principle introduced by Gonalves and Jara. In my talk I will review the concept of energy solutions, their uniqueness, and present some convergence results that rely on them. In particular I will discuss the chaos decomposition as a powerful tool for models whose invariant measure is Gaussian or i.i.d. Bernoulli. Based on joint works with Giuseppe Cannizzaro and Massimiliano Gubinelli.

Valeria Ricci (University of Palermo, Italy)

Title: Hydrodynamic limits for multiphase Boltzmann models

Abstract: We shall describe the validation of hydrodynamic models for thin sprays from a class of multiphase Boltzmann models where the collision kernels share a common structure, and include elastic collisions and some kind of inelastic collisions.

The results have been obtained in joint works with E. Bernard, L. Desvillettes and F. Golse.