STOCHASTIC EQUATIONS AND PARTICLE SYSTEMS
7–9 April 2025, Istituto Nazionale di Alta Matematica "Francesco Severi"

Monday, April 7

09:45   Xue-Mei Li – Fluctuations of Stochastic Heat Equation and KPZ equation

10:30   Coffee break

11:00   Neill O'Connell – Discrete Whittaker processes
11:45   Max-Konstantin von Renesse – Rigorous Dean-Kawasaki Models for Reversible and Irreversible Diffusions

12:30   Lunch break

14:15   Federico Cornalba – Numerical aspects for stochastic PDEs of Fluctuating Hydrodynamics
14:45   Francesco Grotto – Stochastic transport models of turbulence
15:15   Vlad Mărgărint – A bridge between Random Matrix Theory and Schramm-Loewner Evolutions Theory
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Tuesday, April 8

09:00   Nils Berglund – Renormalisation and sharp asymptotics for metatable transition times in stochastic Allen-Cahn equations
09:45   Benjamin Gess – Gradient flow structures and large deviations for porous media equations

10:30   Coffee break

11:00   Lorenzo Zambotti – Reflected, Skew or Bessel SPDEs and stochastic sewing
11:45   Patrícia Gonçalves – SBE/KPZ equations from multi species exclusion

12:30   Lunch break

14:15   Kirone Mallick – An exact solution of the macroscopic fluctuation theory for symmetric exclusion
15:00   Karl-Theodor Sturm – Conformally invariant random geometry in dimensions n>2

Wednesday, April 9

09:00 Benoit Dagallier – Uniqueness of the invariant measure of the phi^4_2 dynamics in infinite volume
09:45   Marco Romito – About some notions of irregularity with application to the enhanced dissipation of rough shear flows

10:30   Coffee break

11:00   Davide Gabrielli – Solvable Stationary Non Equilibrium States
11:45   Arnaud Debussche – From correlated to white transport noise in fluid models