Luz Roncal: Wavelet analysis and the Frisch-Parisi formalism for the Schrödinger equation.

vendredi 8 juillet 2022 09:00 (1 heure)

We consider the solution of the Schrödinger equation when the initial datum tends to the Dirac comb. It is known that the fluctuations associated to this equation can be expressed via a simplification of the Riemann non-differentiable function. We prove, using wavelet analysis, that the Frisch–Parisi multifractal formalism holds in this context.

Joint work with Sandeep Kumar, Felipe Ponce-Vanegas, and Luis Vega.