

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

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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.