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Kinetic wave equations and turbulence

Thursday, 15 January 2026 09:00 (1 hour)

Wave Turbulence arises in nonlinear wave or dispersive equations in a chaotic regime. It shares many features with hydrodynamic turbulence, but there is a decisive difference: the ensemble dynamics are expected to be described by a kinetic equation. This gives a link between the Hamiltonian system and the turbulent behavior which opens the door to a mathematical analysis. I will present the general ideas and the latest developments.

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