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Wave kinetic theory for the forced/dissipated NLS equation

jeudi 23 mai 2024 13:30 (1 heure)

We will present some recent developments in the justification of kinetic equa- tions in the presence of forcing and dissipation. Such settings are of particular physical relevance as they allow the study of cascades: the transfer of energy from large scales to small scales. In this talk, we provide the first rigorous justification of such a kinetic equation in the case of a wave system governed by the cubic Schrödinger equation with a stochastic forcing and viscous dissipation. We will describe various regimes depending on the relative strength of the dissipation, the forcing and the nonlinear interactions, which give rise to different kinetic equations. Based on joint work with Zaher Hani.

Orateur: GRANDE, Ricardo