ID de Contribution: **7**   Type: **Non spécifié**

Scattering theory for NLS I

mardi 26 mars 2024 14:00 (2 heures)

We study the long time behaviour of solutions to NLS. We shall first show that for long-range nonlinearities the nonlinear solutions cannot behave as free waves for large times.

Next we shall focus on the short range case and we shall describe several results proving that nonlinear solutions behave as free wave in a suitable sense. In particular we shall discuss the scattering theory in H^1 and in \Sigma spaces. We shall also present during the lectures some open problems.

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