

Recovery of the Nonlinearity from Scattering Data for Nonlinear Schrödinger Equations

Jason MURPHY

Department of Mathematics, University of Oregon, USA

Email: jamu@uoregon.edu

We review some recent work on the problem of recovering an unknown nonlinearity from the (small-data) scattering behavior of solutions, including the case of modified scattering. We will additionally address the question of stability for such results. The talk will discuss joint work with R. Killip and M. Visan, as well as G. Chen.