Asymptotic stability of solitons for nonlinear Schrödinger equations

Elena Kopylova (University of Vienna and Russian Academy of Sciences)

Abstract. We consider $U(1)$-invariant nonlinear Schrödinger equations. Our main focus is on the role of solitary waves in the long-time asymptotics.

Key results in asymptotic stability of solitary waves were obtained in V.S. Buslaev, C. Sulem, On asymptotic stability of solitary waves for nonlinear Schrödinger equations, Ann. Inst. Henri Poincaré, Anal. Non Linéaire, (2003)

Mathematical Physics Seminar
13.11.2014, 14:00
1090 Wien, Oskar-Morgenstern-Platz 1, Seminarraum 07