The Riemann-Hilbert Method for Soliton Equations

Spyros Kamvissis

Department of Mathematics University of Crete

Abstract

A brief informal introduction:

1. What is a Riemann-Hilbert factorisation problem 2. What is the Riemann-Hilbert problem for KdV, NLS, Orthogonal Polynomials 3. Nonlinear Stationary Phase