國立陽明交通大學應用數學系
學術演講公告

主講人：Peter D. Miller 教授(密西根大學數學系)

講　題：Introduction to Semiclassical Asymptotic Analysis: Lecture 2

時　間：114 年 12 月 23 日(星期二) 下午 15:30 –16:30

地　點：(光復校區) 科學一館 213 室

Abstract

We continue the analysis of the defocusing nonlinear Schrödinger equation in the semiclassical limit. With the scattering data approximated using the WKB method, we turn to the inverse-scattering problem which is formulated as a matrix Riemann-Hilbert problem, here also involving the small parameter in a singular fashion. We develop the key ideas of the Deift-Zhou steepest descent method, and show how it leads to phenomena such as wave breaking.

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