

数学与系统科学研究院

计算数学所学术报告

报告人: 张英楠 博士

(南京师范大学)

报告题目:

Integrable discretization of soliton equation and its application in numerical simulations

邀请人: 胡星标 研究员

报告时间: 2018 年 7 月 3 日 (周二)

下午 15:00-16:00

报告地点: 数学院思源楼九层

915 教室

Abstract:

In this talk, I will talk about the integrable discretizations of soliton equations. It is a well known idea that integrable discretization of soliton equation can be obtained by a suitable explanation of its Backlund transformation. We combine this idea with numerical simulation of solitons and give a procedure to discretize soliton equations. We apply this procedure to several equations including the KdV equation, the nonlinear Schrodinger equation, the Boussinesq equation and the modified KdV equation.

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