

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Xiaoming Chen**

(*Beijing University of Technology*)

报告题目:

**Hankel determinant type solutions of
Volterra lattice and discrete Volterra
lattice under free boundary condition**

邀请人: 常向科 副研究员

报告时间: 2019 年 12 月 3 日 (周二)

下午 13:00-14:00

报告地点: 科技综合楼三层

301 报告厅

Abstract:

In this talk, we will discuss solutions expressed in terms of Hankel determinant of the following five integrable systems under free boundary condition: the first two members of the Volterra lattice hierarchy, the first two members of the non-isospectral Volterra lattice hierarchy and fully-discrete Volterra lattice. The methods we used are Hirota bilinear method and determinant techniques. These results are not only interesting in theory, but also has application potential in numerical analysis.

欢迎大家参加！