数学与系统科学研究院

计算数学所网络学术报告

报告人：　Prof. Jacek Szmigielski

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报告题目：

A 2-component Camassa-Holm equation, Euler-Bernoulli Beam Problem and Non-commutative Continued Fractions, Part II

邀请人：　常向科 副研究员

报告时间：2020 年 12 月 4 日（周五）

上午 10:00-11:00

报告工具：Zoom 会议（ID：374 381 0826）

入会密码：　K3jmYB

Abstract:

In the second part of my talk I will concentrate on the discrete beam problem involving finite discrete measures. The main question addressed will be the inverse beam problem, that is, a reconstruction of a discrete beam from the knowledge of a properly defined spectral data. The analog of this question for a discrete string was solved in the 1950s by M.G. Krein with the help of Stieltjes' continued fractions. I will show that the inverse discrete beam problem is solved by extending the string result to non-commuting Stieltjes' continued fractions. I will present a complete solution to the inverse beam problem in terms of Hankel-type determinants.

欢迎大家参加！