数学与系统科学研究院 计算数学所网络学术报告

<u>报告人</u>: Prof. Jacek Szmigielski

(Department of Mathematics and Statistics, University of

Saskatchewan, Canada)

报告题目:

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

邀请人: 常向科 副研究员

<u>报告时间</u>: 2020 年 12 月 2 日(周三) 上午 10:00-11:00

<u>报告工具</u>: Zoom 会议(ID: 374 381 0826) 入会密码: K3jmYB

Abstract:

This is a series of two talks based on my recent joint work with R. Beals. I will present a new approach to the Euler-Bernoulli beam based on a matrix string problem. The motivation for this type of approach goes back to the **Camassa-Holm (CH) equation and its relation to** an inhomogeneous string. In the first part of the talk I will discuss the spectral properties of matrix string problem with Dirichlet the boundary conditions. This involves Я certain compact operator which naturally can be connected to the matrix string problem and determine the properties spectral whose properties of the matrix string operator. I will conclude the first talk with a brief discussion of Wronskians and Green's kernels, setting a stage for the inverse problem.

欢迎大家参加!