



深圳北理莫斯科大学

УНИВЕРСИТЕТ МГУ-ППИ В ШЭНЬЧЖЭНЕ

SHENZHEN MSU-BIT UNIVERSITY

应用数学讲座

Научный Семинар по Прикладной Математике
Research Seminar on Applied Mathematics

应用数学报告 (91)

报告人 / Докладчик / Speaker: Prof. Natalia Bondarenko, Samara National Research University

题目 / Название / Title: Spectral data characterization for the Sturm-Liouville operator on the star-shaped graph

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地点 / Место / Venue: 腾讯会议795-290-874

摘要 / Аннотация / Abstract:

In this talk, we will consider the inverse spectral problem that consists in the recovery of the Sturm-Liouville operator on the star-shaped graph from the spectral data. The method of solution is based on the representation of the operator in the matrix form and on the ideas of the method of spectral mappings, which is the universal method in the theory of inverse spectral problems. Necessary and sufficient conditions for the solvability of the inverse problem will be presented. In other words, the characterization of the spectral data will be given for the considered operator. The talk will be based on the paper [1] and a series of previous studies of the author.

Natalia Bondarenko 简介:

Natalia Bondarenko, Professor at Department of Applied Mathematics and Physics, Samara National Research University. Leading Researcher at the S.M. Nikolskii Mathematical Institute, People's Friendship University of Russia (RUDN University). Senior Researcher at Saratov State University.

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