



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（85）

报告人 / Докладчик / Speaker: 董世杰 助理教授（南方科技大学）

题目 / Название / Title: Global behavior for 2D Dirac-Klein-Gordon equations

时间 / Время / Time: 2023.08.31, 11:00-13:00; 15:00-17:00

地点 / Место / Venue: 主楼336会议室

摘要 / Аннотация / Abstract:

Talk I: We consider two-dimensional Dirac-Klein-Gordon equations, which are a basic model in particle physics. We investigate the global behavior of small data solutions to the systems in the case of a massive scalar field and a massless Dirac field.

Talk II: In the second part of the seminar, we prove sharp time decay and linear scattering for the solutions to the equations. This talk is based on joint works with Kuijie Li, Yue Ma, Zoe Wyatt, and Xu Yuan.