



## 复旦大学数学科学学院 数学综合报告会

报告题目: Yang-Mills-Higgs-Schrödinger flow

报告人: 宋翀 (厦门大学)

时间: 2025-06-16 星期一 15:00-16:00

地点: 光华东主楼2001

报告摘要:

In this talk, we will introduce the Yang-Mills-Higgs-Schrödinger (YMHS) flow, which is the infinite dimensional Hamiltonian flow of the Yang-Mills-Higgs functional defined on a holomorphic fiber bundle. It originates from the Schrödinger-Chern-Simons system and naturally extends the Schrödinger map flow introduced by Ding-Wang to a gauged setting. We will discuss its geometric structures and also local well-posedness. This is a joint work with Bo Chen.

非线性数学模型与方法教育部重点实验室  
中法应用数学国际联合实验室  
上海市现代应用数学重点实验室  
复旦大学数学研究所