



北京理工大学

数学与统计学院学术报告

Reconstruction of nodal Gushel-Mukai threefolds

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时间: 2025年05月28日(周四)下午15:00-17:00

地点: 文萃楼F 403

摘要: Let X be a 1-nodal Gushel-Mukai threefold, it is either factorial or non-factorial. In both cases, I will talk about the following reconstruction:

1. Reconstruction the birationally equivalent class of non factorial GM threefold via its Kuznetsov component.
2. Reconstruction the isomorphism class of non factorial GM threefolds via its categorical absorption of Kuznetsov components.
3. Reconstruction the birationally equivalent class of factorial GM threefold via a categorical resolution of Kuznetsov components.

If time allows, I will talk about the work in progress to reconstruct the isomorphism class of factorial GM threefold via its Kuznetsov components.

The talk is based on joint work with Xun Lin, Daniele Faenzi and with Marco Rampazzo, Kacper Grzelakowski and in progress with Ziqi Liu.

个人简介: 张诗卓是中山大学的副教授，主要研究方向是代数簇凝聚层的导出范畴。其工作发表在Compositio, Math annalen, Crelle等顶尖杂志上。