



## 复旦大学数学科学学院 数学综合报告会

报告题目: Distinguished varieties and geometric Arveson-Douglas problem in polydiscs

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时间: 2026-05-22 星期五 15:30-16:30

地点: 腾讯会议: 164-290-089

报告摘要:

The essential normality of analytic Hilbert modules is a central problem in the geometric analysis of Hilbert modules. The essential normality of quasi-homogeneous quotient modules over the polydiscs has been characterized, which is deeply related to the distinguished varieties. We are concerned about the essential normality of inhomogeneous distinguished quotient Hardy modules over the polydiscs, and give a positive answer in the case that the associated ideal is radical and regular along the boundary of the associated variety.

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