



复旦大学数学科学学院 数学综合报告会

报告题目: Birational boundedness of rationally connected klt Calabi-Yau 3-folds

报告人: 江辰 博士 (东京大学国际高等研究所)

时间: 2017-12-14 星期四 14:00-15:00

地点: 光华东主楼 1501

摘要: Calabi-Yau varieties and Fano varieties are building blocks of varieties in the sense of birational geometry. They are expected to satisfy certain finiteness. Recent progress on BAB Conjecture shows that certain Fano varieties form a bounded family. We are looking for the analogue for Calabi-Yau varieties. We only consider rationally connected Calabi-Yau varieties with klt singularities, which are those Calabi-Yau varieties behaving most like Fano. We show that rationally connected klt Calabi-Yau 3-folds form a birationally bounded family. This is a joint work in progress with W. Chen, G. Di Cerbo, J. Han, and R. Svaldi.

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