



复旦大学数学科学学院 数学综合报告会

报告题目: **Classification of fake projection planes and their applications**

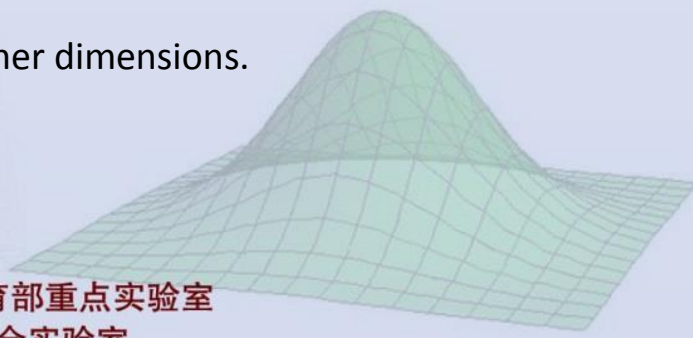
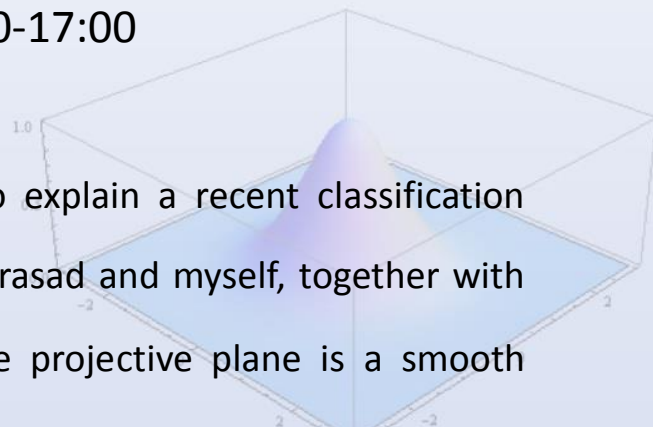
报告人: Prof. Sai Kee Yeung

(Purdue University, USA)

报告时间: 2016-11-30 星期三 16:00-17:00

报告地点: 光华东主楼 1501

摘要: The main purpose of the talk is to explain a recent classification scheme of fake projective planes by Gopal Prasad and myself, together with the work of Cartwright and Steger. A fake projective plane is a smooth complex surface with the same Betti numbers as the complex projective plane but not biholomorphic to it. We would introduce some applications to problems in complex geometry and algebraic geometry. We would also mention some higher dimensional analogue by considering arithmetic fake compact Hermitian symmetric spaces of higher dimensions.



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