



复旦大学数学科学学院 数学综合报告会

报告题目: Hölder Continuous Solutions of Monge–Ampère Equations on Hermitian Manifolds

报告人: Professor Sławomir Kołodziej (Mathematics and Computer Science, Jagiellonian University, Poland.)

时间: 2026-10-26 星期一 10:00-11:00

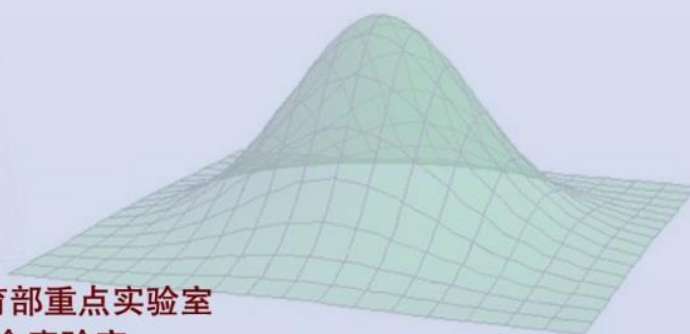
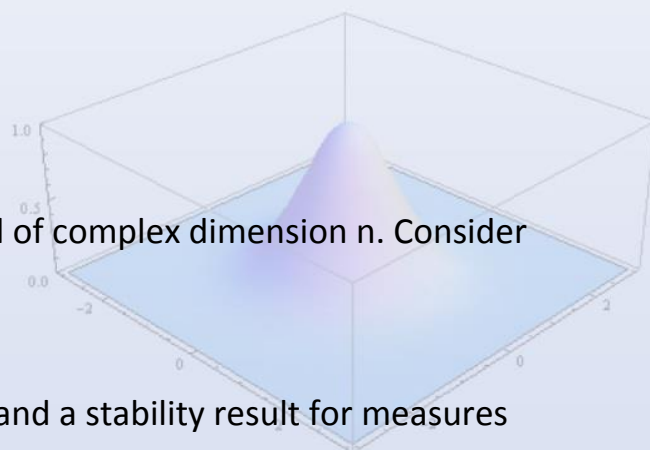
地点: 光华东主楼2201

报告摘要:

Let (X, ω) be a compact Hermitian manifold of complex dimension n . Consider the complex Monge-Ampère equation:

$$(\omega + dd^c \varphi)^n = c d\mu.$$

We prove the existence of continuous solutions and a stability result for measures well dominated by capacity. We also give a couple of characterizations of measures yielding Hölder continuous solutions of the Monge-Ampère equation. They allow us to identify certain classes of measures for which such solutions exist.



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