



复旦大学数学科学学院
数学综合报告会

报告题目: **The L2-theory of the $\bar{\partial}$ equation on unbounded domains**

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报告时间: 2016-06-20 星期一
9:00-10:00

报告地点: 光华楼东主楼 1801

摘要: In this talk, I will discuss recent progress with Phil Harrington on understanding the $\bar{\partial}$ -problem in L^2 and L^2 -Sobolev spaces on not necessarily pseudoconvex unbounded domains. I will discuss the challenges in moving from bounded to unbounded domains, and in particular, finding good defining functions, derivatives, and Sobolev spaces in which to work. Time permitting, I will conclude with a short explanation of how infinity can be thought of as a part of the boundary of the domain at which the metric and domain are poorly behaved.

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