



复旦大学数学科学学院 数学综合报告会

报告题目: Asymptotic Expansions of Solutions of the Yamabe Equation and the σ - k Yamabe Equation near Isolated Singular Points

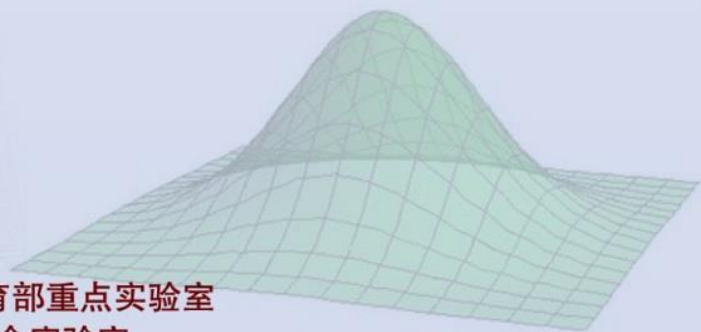
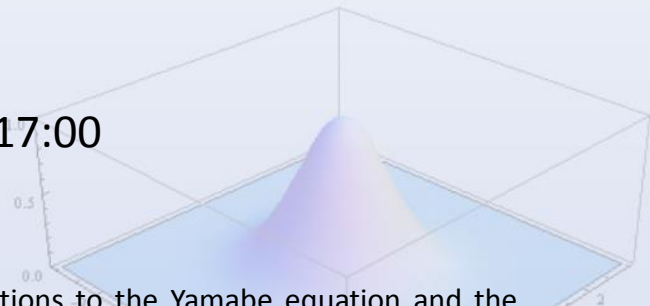
报告人: 韩青 教授

(University of Notre Dame)

时间: 2019-01-10 星期四 16:00-17:00

地点: 光华东主楼 2001

摘要: We study asymptotic behaviors of positive solutions to the Yamabe equation and the σ - k Yamabe equation near isolated singular points and establish expansions up to arbitrary orders. Such results generalize an earlier pioneering work by Caffarelli, Gidas, and Spruck, and a work by Korevaar, Mazzeo, Pacard, and Schoen, on the Yamabe equation, and a work by Han, Li, and Teixeira on the σ - k Yamabe equation. The proof is based on a study of the linearized operators at radial solutions, following an approach adopted by Korevaar et al.



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