



北京理工大学

数学与统计学院学术报告

Refined Eigenfunction Restriction Estimates on Riemannian Surfaces

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时间: 2025. 5. 12 下午3:00--4:00

地点: 文萃E 909

摘要: We refine the L_p restriction estimates for Laplace eigenfunctions on Riemannian surfaces, originally due to Burq, Gérard, and Tzvetkov. Our approach, based on variable-coefficient weighted Fourier extension estimates, unifies and sharpens earlier results of Eswarathasan and Pramanik. We also establish sharp estimates for eigenfunctions restricted to tubular neighborhoods of curves, providing new insights related to the Mizohata–Takeuchi conjecture.

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