青年学术论坛邀请报告

报告人: 朱三国教授

单位: 江苏理工大学数理学院

时间: 05月22日(周一) 13:00-14:00

邀请人: 李文侠教授

地点: 闵行数学楼401报告厅

题目: Asymptotic order of the quantization errors for a class of self-affine measures

摘要: Let E be a Bedford-McMullen carpet determined by a set of affine mappings $(f_{ij})_{(i,j)\in G}$ and μ a self-affine measure on E associated with a probability vector $(p_{ij})_{(i,j)\in G}$. We prove that, for every $r\in (0,\infty)$, the upper and lower quantization coefficient are always positive and finite in its exact quantization dimension s_r . As a consequence, the nth quantization error for μ of order r is of the same order as $n^{-\frac{1}{s_r}}$. In sharp contrast to the Hausdorff measure for Bedford-McMullen carpets, our result is independent of the horizontal fibres of the carpets.

个人简介:

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朱三国教授在Math.Z、Science China Math.、Nonlinearity、Proc. Amer. Math. Soc.、J. Number Theory等国内外知名SCI源刊发表论文23篇。

