

论文

加权解析Lipschitz空间的等价范数

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摘要:

该文研究单位圆盘上加权解析Lipschitz空间的等价范数。作者首先推广文献 [3] 中的结果, 给出了加权解析Lipschitz函数的 p Garsia模刻画, 然后用高阶导数刻画了加权解析Lipschitz函数, 并给出了它的Bergman Carleson测度特征。最后, 还得到了加权解析Lipschitz函数类似于BMO指数衰减的John Nirenberg定理。

关键词: 加权解析Lipschitz空间 p Garsia模 Bergman Carleson测度 指数衰减

分类号:

32A37

Equivalent Norms on Weighted Analytic Lipschitz Spaces

HUANG Ling-Di, CHEN Ze-Qian

Abstract:

In this paper, the authors first extend Theorem 1 in [3] and obtain the characterization of weighted analytic Lipschitz functions in terms of p Garsia modules. Secondly, the authors characterize them by using higher derivatives and Bergman Carleson measures, respectively. Finally, the authors show the associated exponential decay effect as similar to John Nirenberg's theorem of BMO spaces.

Keywords: Weighted analytic Lipschitz spaces; p Garsia modules Bergman Carleson measures

收稿日期 修回日期 网络版发布日期

DOI:

基金项目:

国家自然科学基金(10271117)

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