



复旦大学数学科学学院 数学综合报告会

午间学术报告会（一百三十）

报告题目：Sublinearly Morse Boundary of Groups

报告人：

（上海数学中心）

报告时间：2021-04-23 星期五 12:00-13:00

报告地点：光华东主楼 2201

摘要：

Gromov boundary plays a central role in many aspects of geometric group theory. In this study, we develop a theory of boundary when the condition on hyperbolicity is removed: For a given proper, geodesic metric space X and a given sublinear function κ , we define the κ -boundary, as the space of all κ -Morse quasi-geodesics rays. The sublinearly Morse boundary is QI-invariant and thus can be associated with the group that acts geometrically on X . For a large class of groups, we show that sublinearly Morse boundaries are large: they provide topological models for the Poisson boundaries of the group. This talk is mainly based on several joint projects with Ilya Gekhtman, Kasra Rafi and Giulio Tiozzo.

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