

Fall 2024

Geometry and Topology Seminar

Title

Gromov norm on nonpositively curved manifolds

Speaker: Shi Wang, ShanghaiTech University

Date: September 20, 2024

Time: 10:30AM

Tencent Meeting: 584 131 419

Abstract: Given a topological space, the Gromov norm of a singular real homology class measures certain topological complexity. In the case of connected closed oriented manifolds, the simplicial volume is defined as the Gromov norm of the fundamental class. For hyperbolic manifolds, the simplicial volume is proportional to its hyperbolic volume and it is in particular positive. In this talk, I will discuss some positivity results on the Gromov norm for certain nonpositively curved manifolds.