



复旦大学数学科学学院 数学综合报告会

报告题目: The length of different types of closed geodesics on Weil-Petersson random hyperbolic surfaces

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时间: 2025-10-28 星期二 16:00-17:00

地点: 光华东主楼1801

报告摘要:

The Weil-Petersson metric on the moduli space of genus g hyperbolic surfaces is of finite volume, and hence induce a probability measure and a model of random surfaces. In this talk, we will discuss about the behavior of several different types of closed geodesics on Weil-Petersson random hyperbolic surfaces, and see in which length window they should exist. In particular, we will show the length of separating systole and non-simple systole on Weil-Petersson random hyperbolic surfaces. This talk is based on a series of joint works with Yuxin He, Xin Nie, Yang Shen and Yunhui Wu.

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