



西北大学数学学科创设100周年  
-1923-2023-

数领百年 学臻未来

# Weighted topological entropy of random bundle transformations

报告人：周效尧

报告时间：2023 年 10 月 27 日下午 2:30

地点：凌岭报告厅、腾讯会议 430-743-3629 (线上线下同步)

报告摘要：

In this talk, we will introduce the weighted topological entropy in the case of random dynamical systems with an ergodic and compact driving system and give a variational principle for it. This gives an affirmative answer to the question posed by Feng and Huang [Variational principle for weighted topological pressure, J. Math. Pures Appl. 106 (2016), 411-452] in the case of entropy. It also generalizes the relativized variational principle for fiber topological entropy, and provides a topological extension of Hausdorff dimension of invariant sets and random measures on the 2-torus  $T^2$ . It is a joint work with Kexiang Yang, Ercai Chen and Zijie Lin.

欢迎各位老师和同学参加！

西北大学数学学院

2023 年 10 月 24 日