动力系统线上学术报告

SRB measures for pointwise hyperbolic systems on open regions

报告人：周云华（重庆大学）

报告时间：2020 年 11 月 17 日上午 10:00-11:00

腾讯会议 ID：848 516 284（密码：123456）

链接入会：https://meeting.tencent.com/s/sOMOigG5lrEn

报告摘要：A diffeomorphism f: M→M is pointwise partially hyperbolic on an open invariant subset N⊆M if there is an invariant decomposition $T\_N M = E^u \oplus E^c \oplus E^s$ such that $D\_x f$ is strictly expanding on $E^u (x)$ and contracting on $E^s (x)$ at each x∈N. We show that under certain conditions f has unstable and stable manifolds, and admits a finite or an infinite u-Gibbs measure \mu. If f is pointwise hyperbolic on N, then \mu is an SRB measure or an infinite SRB measure. As applications, we show that some almost Anosov diffeomorphisms and gentle perturbations of Katok's map have the properties.

This is a joint work with Jianyu Chen and Huyi Hu.

欢迎各位老师和同学参加！

西北大学数学学院

2020 年 11 月 2 日