



复旦大学数学科学学院 数学综合报告会

报告题目：**SRB measures for partially hyperbolic endomorphisms**

报告人：Paulo Varandas

(Federal University of Bahia, Brazil)

报告时间：2017-04-14 星期五 15:00-16:00

报告地点：光华东主楼 1801

摘要：In this talk we will present some recent contribution to the thermodynamic formalism for partially hyperbolic attractors of non-singular endomorphisms. These attractors admit an invariant stable bundle and a positively invariant cone field with non-uniform cone expansion at a positive Lebesgue measure set of points. We prove these attractors have finitely many SRB measures, that these are hyperbolic, and that the SRB measure is unique provided the dynamics is transitive. Moreover, these SRB measures are statistically stable (in the weak * topology) and the entropy of the SRB measure varies continuously with respect to the endomorphism. These results hold for attractors of Axiom A endomorphisms and robust classes of partially hyperbolic endomorphisms derived from Anosov endomorphisms.

非线性数学模型与方法教育部重点实验室
中法应用数学国际联合实验室
上海市现代应用数学重点实验室
复旦大学数学研究所