ENTROPY, HORSESHOE AND KATOK CONJECTURE

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Abstract： In this talk, we will introduce weak Horseshoe and semi-Horseshoe. We will review some progress about weak Horseshoe, semi-Horseshoe and Katok conjecture. Particularly,

• For random compact set, Positive (fiber) entropy implies (fiber) weak Horseshoe.

• The existence of semi-horseshoes for partially hyperbolic diffeomorphisms.

• Katok conjecture holds for an affine transformation on a compact homogeneous space.

This is based on joint works with Prof. Li, Lu, Xu, Ye.