

## **ENTROPY, HORSESHOE AND KATOK CONJECTURE**

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**Time:** Friday, January 6, 2023, 10:00-11:00

**Tencent room:** 787-854-591      **Code:** 200433

**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.