

EXPONENTIAL MIXING OF FLOWS FOR GEOMETRICALLY FINITE HYPERBOLIC MANIFOLDS WITH CUSPS

Online seminar

Speaker: Wenyu Pan University of Chicago

Time: Mon, Jan. 17th, 10:00-11:00 Zoom Meeting ID: 988 7000 2013 **Abstract:**

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Let \mathbb{H}^n be the hyperbolic n-space and \mathbb{G} geometrically finite discrete subgroup in Isom $\{+\}(\mathbb{H}^n)$ with parabolic elements. We investigate whether the geodesic flow frame flow) the unit (resp. the over tangent bundle $T^1(\mathbb{B} \times \mathbb{H}^n)$ (resp. the frame bundle $F(\langle Gamma \rangle backslash \rangle (H)^n)$ mixes exponentially. This result has many applications, including spectral theory, prime geodesic theorems, orbit counting, equidistribution, etc.

I will start with a survey of the past results, methods, and related problems on this topic. Along the way, I will present the joint work with Jialun Li, Pratyush Sarkar.