

## Equidistribution of Periodic Tori

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Bowen and Margulis independently proved in the 70s that closed geodesics on compact hyperbolic surfaces equidistribute towards the measure of maximal entropy. From a homogeneous dynamics point of view, this measure is the quotient of the Haar measure on  $\mathrm{PSL}(2, \mathbb{R})$  modulo some discrete cocompact subgroup.

In a joint work with Jialun Li, we investigate the higher rank setting of this problem by taking a higher rank Lie group (like  $\mathrm{SL}(d, \mathbb{R})$  for  $d \geq 3$ ) and by studying the dynamical properties of geodesic flows in higher rank: the so-called Weyl chamber flows and their induced diagonal action. We obtain an equidistribution formula of periodic tori (instead of closed orbits of the geodesic flow).

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