

Midwest Dynamical Systems

Equidistribution and counting points on orbits of geometrically finite hyperbolic groups

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Abstract: In this joint work with Hee Oh, we consider various sphere packing configurations, which happen to be invariant under actions of geometrically finite hyperbolic groups, and estimate the cardinality of spheres of curvature (with respect to euclidean, or spherical, or hyperbolic metric) at most T for some large T . This sphere counting problem is studied by formulating and proving certain “weighted equidistribution” results related to the geodesic flow on the unit tangent bundle of a hyperbolic n -manifold H^n/Γ , where Γ is a geometrically finite discrete group of isometries of H^n .

Saturday, November 7 at 9:00 AM in SEO 636