

Prof. Min Lee

Title: Effective circle count for Apollonian packings and closed horospheres

Abstract:

We prove an effective equidistribution of closed horospheres in the unit tangent bundle of a geometrically finite hyperbolic 3-manifold of infinite volume, whose fundamental group has critical exponent bigger than 1. As an application, we obtain an effective count for Apollonian circle packings. Non-effective versions of equidistribution and counting in this context were known previously. It is a joint work with Hee Oh.