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**Nimish A Shah\*** ([shah@math.osu.edu](mailto:shah@math.osu.edu)), The Ohio State Univ, Dept of Mathematics, 100 Math Tower, 231 W 18th Ave, Columbus, OH 43210, and **Hee Oh**. *Counting points and circles in orbits of geometrically finite hyperbolic groups.*

We extend some of the earlier results of Duke, Rudnick and Sarnak about counting points in large balls on discrete orbits of lattices acting linearly on vectors spaces, to the case of counting on orbits of geometrically finite hyperbolic groups. We also consider the problem of counting circles in various circle packing invariant under actions of Kleinian groups. (Received September 08, 2010)