PhiladelphiaArea NumberTheory Seminar

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Distribution of Packets of Periodic Torus Orbits

Abstract: In the rst part I will describeDuke's theorem about the equidistribution of packets of Heegnerpoints and closedgeodesics $PGL_2(Z)nPGL_2(R)$ | the unit tangent bundle of the modular curve. While Duke's method is basedon automorphic forms, Linnik has achieved very strong partial results 30 years prior to Duke. I will present the modern variant due to Einsiedler, Lindenstrauss, Michel and Venkatesh of the \ergodic method" of Linnik.

In the secondpart we will discusshigher rank analogues and partial generalizations of Linnik's method to higher rank using measurerigidity for toral actions and arithmetic results about separation of torus orbits.

Wednesday,February 1, 2017 2:40{4PM

Bryn Mawr College Department of Mathematics Park ScienceCenter 328 Tea and refreshmentsat 2:20PM in Park 355