Uri Shapira

Title: Dynamics and continued fractions.

Abstract: We will present some recent results regarding the continued fraction expansion of certain sequences of numbers. In particular, we will focus on the following result (joint with Menny Aka): Let x be a quadratic irrational and p a prime. Then the statistics of the period of the continued fraction expansion of pnx converges to the ”right” statistics; i.e. to the one given by the Gauss measure.

Mahan Mj

Title: On Discreteness of Commensurators

Abstract: We begin by showing that commensurators of Zariski dense subgroups of isometry groups of symmetric spaces of non-compact type are discrete provided that the limit set on the Furstenberg boundary is not invariant under the action of a (virtual) simple factor. In particular,for rank one or simple Lie groups, Zariski dense subgroups with non-empty domain of discontinuity have discrete commensurators. This generalizes a Theorem of Greenberg for Kleinian groups. We then prove that for all finitely generated, Zariski dense, infinite covolume discrete subgroups of Isom(H3), commensurators are discrete. Together these prove discreteness of commensurators for all known examples of finitely generated, Zariski dense, infinite covolume discrete subgroups of Isom(X) for X an irreducible symmetric space of noncompact type.