

1042-51-23

Kurt H. Falk* (kurt.falk@nuim.ie), Department of Mathematics, NUI Maynooth, Maynooth, Co Kildare, Ireland. *Hyperbolic manifolds with dimension gap.*

Recurrent dynamics in geometrically finite hyperbolic manifolds is well understood by means of Patterson-Sullivan theory. For geometrically infinite manifolds the focus shifts to nonrecurrent dynamics, with mutually singular conformal measures associated to different infinite ends of a given manifold. Even more, nonrecurrent dynamics becomes the "thick part" of dynamics, not only in the sense of measure but also Hausdorff dimension, for manifolds with a dimension gap between recurrent and nonrecurrent dynamics. I will present some classical results in this area alongside with newer research I was involved in. (Received July 22, 2008)