Peter Perry

Title: Scattering resonances on hyperbolic manifolds as a model of chaotic scattering

Abstract: In this survey talk we'll review the basics of scattering theory on geometrically finite, real hyperbolic manifolds. In particular we'll discuss the connection of scattering resonances with Selberg's zeta function and known results relating the distribution of resonances to properties of the classical geodesic flow. We will briefly discuss problems and results for the class of asymptotically hyperbolic manifolds introduced by Mazzeo and Melrose.