1127-58-193 **Dubi Kelmer*** (`dubi.kelmer@bc.edu`), Department of Mathematics, Maloney Hall Boston College, Chestnut Hill, MA 02467. *On the spectrum and length spectrum of hyperbolic manifolds.*

There is a close relation between the eigenvalues of the Laplace-Beltrami operator of a Riemannian manifold and the set of lengths of its closed geodesics. Moreover, from these spectra one can extract additional geometric properties of the manifolds. In my talk I will describe some new and old results of this type. In particular, I will discuss the question of how much information can be obtained when we have only partial information on the spectrum. (Received February 03, 2017)