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Yaiza Canzani* (canzani@email.unc.edu). *Averages of Laplace eigenfunctions over curves.*

In this talk we will discuss conditions on a sequence of Laplace eigenfunctions so that their averages over a given closed curve go to zero as their eigenvalues grows to infinity. We will also discuss the averages of the normal derivatives of the eigenfunctions along the curve. Everything will be done on smooth compact manifolds without boundary. The conditions needed to address these problems are on the defect measure associated to the sequence of eigenfunctions and on how this defect measure behaves near the given curve. This is joint work with John Toth. (Received September 12, 2016)