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Jean-Francois Lafont and **D. B. McReynolds*** (dmcreyno@math.purdue.edu), 150 N.
University, West Lafayette, IN 47907. *Structure in spectral sets.*

The geodesic length spectrum and eigenvalue spectrum of the Laplacian are well known invariants of a Riemannian manifold. I will discuss some well known questions and results about these invariants. This will lead us to a new direction and I will discuss some recent work with Jean Lafont in this direction. (Received September 10, 2012)