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**Zhiqin Lu\*** (zlu@uci.edu), Department of Mathematics, UC Irvine, Irvine, CA 92697. *On the essential spectrum of complete Riemannian manifolds.*

In this talk, we provide new criteria of a complex number being the essential spectrum of the Laplacians on functions and forms. This is joint work with N. Charalambous. (Received September 04, 2012)