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Zhiqin Lu*, zlu@uci.edu. *The Spectrum of the Laplacian on forms over open manifolds.*

In this talk, we present the proof of the following theorem: let M be a complete non-compact Riemannian manifold whose curvature goes to zero at infinity, then its spectrum of the Laplacian on differential forms is a connected set. The result under different special cases was obtained before, but we recently prove the full general case. This is joint with Nelia Charalambous. (Received March 04, 2021)