

# Spectrum of the drifted Laplacian on Ricci solitons and MCF solitons

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## **Resumo/Abstract:**

The spectrum of Laplacian on Riemannian manifold has been an important topic in geometric analysis. For the solitons for Ricci flow and mean curvature flows, we are naturally lead to deal with the drifted Laplacian. In this talk, I will compare some results on the spectrum of the Laplacian and drifted Laplacian on complete Riemannian manifolds. We discuss essential spectrum and eigenvalues on complete smooth metric measure space. These results can be naturally applied to study drifted Schrodinger operator on self-shrinkers for MCF and gradient shrinking soliton for Ricci flow.