

Complete noncompact quasi-Einstein manifolds.

Ernani Ribeiro Jr (ernanijr@mat.ufc.br)
UFC

Abstract. One of the main motivations to study quasi-Einstein metrics on a Riemannian manifold is its direct relation to the existence of Einstein warped products. Another important motivation comes from the study of diffusion operators by Bakry and Émery. In this talk, we will show that complete noncompact ($\lambda = 0$) quasi-Einstein manifolds are connected at infinity. Moreover, we will present volume growth estimates for complete noncompact quasi-Einstein manifolds similar to the classical results by Bishop, Calabi and Yau.