

Almost Ricci solitons on Finsler spaces

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In this talk, we will introduce (gradient) almost Ricci solitons in Finsler geometry, which are generalizations of Einstein manifolds. In particular, we prove that (M, F, m) is a gradient almost Ricci soliton if and only if the infinity-Ricci curvature Ric_∞ is a scalar function on M when M is compact. Moreover, we give several equivalent characterizations for Randers (gradient) almost Ricci solitons. As applications, we obtain some rigidity results for compact Randers (gradient) Ricci solitons and give some nontrivial examples of Ricci solitons.