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Title: Ricci almost solitons satisfying certain conditions on the potential vector field

Author(s): Amalendu Ghosh

We study Ricci almost soliton with certain conditions on the potential vector field V . First, we prove that a Ricci almost soliton is a Ricci soliton if and only if the potential vector field V is an infinitesimal harmonic transformation. Next, we study Ricci almost soliton satisfying some integral inequalities.

Address:

Amalendu Ghosh
Department of Mathematics
Chandernagore College
Chandannagar, 712 136, W.B.
India