

## On the $m$ -quasi-Einstein almost contact manifolds

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**Abstract.** In this paper, we consider the  $m$ -quasi Einstein metric on certain classes of almost Kenmotsu manifolds. First, we prove that if a Kenmotsu manifold admits  $m$ -quasi Einstein metric, then it is either trivial (Einstein) or locally isometric to a warped product space. We also provide an example of  $m$ -quasi-Einstein Kenmotsu metric. Finally, we prove that a non-Kenmotsu  $(\kappa, \mu)$ '-almost Kenmotsu manifold admitting an  $m$ -quasi-Einstein metric is locally isometric to the Riemannian product  $\mathbb{H}^{n+1}(-4) \times \mathbb{R}^n$ .

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*Mathematics Subject Classification:* 53C25, 53C15, 53D15.

*Key words and phrases:*  $m$ -quasi-Einstein metric, gradient Ricci soliton, almost Kenmotsu manifold, Kenmotsu manifold, Einstein manifold.