

On Three-Dimensional Trans-Sasakian Manifolds

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Abstract: The object of the present paper is to study 3-dimensional trans-Sasakian manifolds which are locally ϕ -symmetric and have η -parallel Ricci tensor. Also 3-dimensional trans-Sasakian manifolds of constant curvature have been considered. An example of a three-dimensional locally ϕ -symmetric trans-Sasakian manifold is given.

Key words: trans-Sasakian manifold, scalar curvature, locally ϕ -symmetric, η -parallel Ricci tensor, constant curvature.

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