



**A STUDY OF  $W_8$ -CURVATURE TENSOR IN  
LP-SASAKIAN MANIFOLD**

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**Abstract**

In this paper, we study, flatness, semi-symmetric and symmetric properties of the  $W_8$ -curvature tensor in LP-Sasakian manifold. And further study the recurrence relations.

**Keywords and phrases:**  $W_8$ -curvature tensor,  $W_8$ -flat LP-Sasakian manifold,  $W_8$ -semisymmetric and symmetric LP-Sasakian manifold,  $W_8$ -recurrent LP-Sasakian manifold.

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