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Slant lightlike submanifolds of indefinite Kenmotsu manifolds

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Abstract: In this paper, we introduce the notion of a slant lightlike submanifold of an indefinite Kenmotsu manifold. We provide a non-trivial example and obtain necessary and sufficient conditions for the existence of a slant lightlike submanifold. Also, we give an example of a minimal slant lightlike submanifold of R_2^9 and prove some characterization theorems.

Key Words: Degenerate metric, Slant lightlike submanifolds, Kenmotsu manifold

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