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On Lightlike Hypersurfaces of a Semi-Riemannian Space form


Rifat GÜNEŞ, Bayram ŞAHİN, Erol KILIÇ
İnönü University

Faculty of Science and Art
Department of Mathematics
Malatya-TURKEY

e-mail: rgunes@inonu.edu.tr

e-mail: bsahin@inonu.edu.tr

e-mail: ekilic@inonu.edu.tr

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 [Authors](#)



Abstract: In this paper, we study a Lightlike hypersurface of a semi-Riemann manifold. We show that a lightlike hypersurface is totally geodesic if and only if it is locally symmetric. Also, we show that a lightlike Hypersurface of $IR_{4q}^{4m}(m, q > 1)$ is totally geodesic under some restrictions. Finally, we give some results on Ricci curvature of a lightlike hypersurface to be symmetric.

math@tubitak.gov.tr

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