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SCREEN SEMI-INVARIANT LIGHTLIKE HYPERSURFACES OF METALLIC SEMI-RIEMANNIAN MANIFOLDS

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ABSTRACT

In this paper, we study screen semi-invariant lightlike hypersurfaces of a metallic semi-Riemannian manifold and investigate geometry of distributions. Moreover, we research screen conformal screen semi-invariant lightlike hypersurfaces of metallic semi-Riemannian manifolds.

REFERENCES

- [1] B. E. Acet, Lightlike Hypersurfaces of Metallic Semi-Riemannian Manifolds, arXiv:1804.01350.
- [2] A. M. Blaga and C. E. Hretcanu, Invariant, anti-invariant and slant submanifolds of a metallic Riemannian manifold, accepted in Novi Sad J. Math.
- [3] M. Crasmareanu and C. E. Hretcanu, Golden differential geometry, Chaos, Solitons and Fractals, 38(5), 1229-1238 (2008).
- [4] M. Crasmareanu and C. E. Hretcanu, Applications of the Golden Ratio on Riemannian Manifolds, Turkish J. Math. 33(2), 179-191 (2009).
- [5] K. L. Duggal and A. Bejancu, Lightlike Submanifolds of Semi-Riemannian Manifolds and Its Applications, Kluwer Academic, (1996).
- [6] K. L. Duggal and B. Şahin, Differential Geometry of Lightlike Submanifolds, Birkhauser, (2010).
- [7] F. E. Erdoğan, Transversal Lightlike Submanifolds of Metallic Semi-Riemannian Manifolds, arXiv:1804.01355.
- [8] F. E. Erdoğan, S. Y. Perkteş, B. E. Acet and A. M. Blaga, On the Geometry of Lightlike Submanifolds in Metallic Semi-Riemannian Manifolds, arXiv:1805.06785 .

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- [9] C. E. Hretcanu and A. M. Blaga, Submanifolds in metallic Riemannian manifolds, accepted in *Differential Geometry - Dynamical Systems*.
- [10] C. E. Hretcanu and M. Crasmareanu, Metallic structure on Riemannian manifolds, *Revista De La Union Matematica Argentina* 54(2), 15-27 (2013).
- [11] N. (Önen) Poyraz and E. Yaşar, Lightlike Hypersurfaces of a Golden semi-Riemannian Manifold, *Mediterr. J. Math.*, 14:204 (2017).
- [12] V. W. de Spinadel, The family of metallic means, *Vis. Math.* 1, 3 (1999).

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