


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Coisotropic Submanifolds of a Semi-Riemannian Manifold

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Abstract: In this paper, we study coisotropic submanifolds of a semi-Riemannian manifold. We investigate the integrability condition of the screen distribution and give a necessary and sufficient condition on Ricci tensor of a coisotropic submanifold to be symmetric. Finally, we present some new theorems and results about totally umbilical coisotropic submanifolds of a semi-Riemannian manifold

Key Words: Semi-Riemannian manifold, Lightlike submanifolds, Coisotropic submanifolds

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