SLANT CURVE IN LORENTZIAN BCV SPACES

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Abstract. The aim of this study is to examine the slant curves in Lorentzian manifolds with BCV (Bianchi-Cartan-Vranceanu) metrics. A practical form of the directional derivative in the presence of the BCV metrics is presented. Moreover, some theorems for slant curves in Lorentzian BCV manifolds are proved.

Finally, spherical images of the tangent indicatrix, principal normal indicatrix and binormal indicatrix of slant curves in Lorentzian BCV manifolds are analyzed.

MSC: 53D15, 53A55, 53C25, 53B30
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