
ON DARBOUX HELICES IN MINKOWSKI SPACE \mathbb{R}_1^3

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Abstract

In the present study, we give the conditions for a curve in the Minkowski space to be a Darboux helix. We show that α is a Darboux helix if there exists a fixed direction d in \mathbb{R}_1^3 such that the function $\langle W(s), d \rangle$ is constant. We give the relation between slant helix and Darboux helix. As a particular case, if we take $\|w\| = \text{constant}$, the curves are constant precession. Some more particular cases of constant precession curves are studied.

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