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Spacelike Normal Curves in Minkowski Space E^3_1

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Abstract: In the Euclidean space E^3, it is well known that normal curves, i.e., curves with position vector always lying in their normal plane, are spherical curves [3]. Necessary and sufficient conditions for a curve to be a spherical curve in Euclidean 3-space are given in [10] and [11]. In this paper, we give some characterizations of spacelike normals curves with spacelike, timelike or null principal normal in the Minkowski 3-space E^3_1.

Key Words: Normal Curves, Position Vector and Minkowski Space

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