

Surface family with a common natural geodesic lift of a timelike curve in Minkowski 3-space

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In the present paper, we find a surface family possessing the natural lift of a given timelike curve as a geodesic in Minkowski 3-space. We express necessary and sufficient conditions for the given curve such that its natural lift is a geodesic on any member of the surface family. Finally, we illustrate the method with some examples.
