



**SOME CHARACTERIZATIONS OF PSEUDO
NULL CURVES IN \mathbb{R}_2^4**

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Abstract

In this paper, we study with Frenet equations which are given in [M. Petrovic-Torgasev, K. İlarıslan and E. Nesovic, On partially null and pseudo null curves in the Semi-Euclidean space \mathbb{R}_2^4 , J. Geom. 84 (2005), 106-116] of a pseudo null unit speed curve in semi-Euclidean 4-space \mathbb{R}_2^4 with index 2. We obtain that the image of the curve lies on the pseudohyperbolic space \mathbb{H}_1^3 in \mathbb{R}_2^4 . Finally, we give some characterizations in terms of harmonic curvatures of this curve in \mathbb{R}_2^4 and also obtain some examples.

Keywords and phrases: semi-euclidean space \mathbb{R}_2^4 , pseudo null curve, pseudohyperbolic space.

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