

R. Medjati

ENP Oran - Maurice AUDIN (Ex ENSET), El-Mnaouer, Oran, Algeria
rafik.medjati@enp-oran.dz

S. Taïfour

ENP Oran - Maurice AUDIN (Ex ENSET), El-Mnaouer, Oran, Algeria
said.taifur@enp-oran.dz

H. Zoubir

ENP Oran - Maurice AUDIN (Ex ENSET), El-Mnaouer, Oran, Algeria
zoubirhanifi@yahoo.fr

The Flat Translation Surfaces in the 3-Dimensional Lorentz Heisenberg Group \mathbb{H}_3

In the Lorentz-Heisenberg space \mathbb{H}_3 endowed with flat metric g_3 , a translation surface is parametrized by $r(x, y) = \gamma_1(x) * \gamma_2(y)$, where γ_1 and γ_2 are two planar curves lying in planes, which are not orthogonal. In this article, we classify translation surfaces in \mathbb{H}_3 , with vanishing Gaussian curvature in Lorentz-Heisenberg space \mathbb{H}_3 .

Keywords: Gaussian curvature, Lorentz Heisenberg space, first fundamental form, second fundamental form, translation surface, flat surface.

MSC: 53A10; 53C30, 53C50, 53C42.