THE SURFACES OF ROTATION GENERATED BY KILLING VECTOR FIELD IN GALILEAN 3-SPACE

FATMA ALMAZ AND MİHRİBAN ALYAMAÇ KÜLAHCI

Abstract. In this study, by using the metric in $G_3$ we constitute a similar group of rotational matrices in $G_3$ and we examine isometries defined in pseudo-Riemannian manifolds. Moreover, we obtain different types of rotational matrices in Galilean space, in which we will need rotational axes and hence Killing vector fields to constitute rotational matrices. Furthermore, we find Killing vector fields according to the metric in $G_3$.

REFERENCES


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The surfaces of rotation generated by Killing vector field in Galilean 3-space


