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Nemat Abazari* (nematabazari@gmail.com), University of Mohaghegh Ardabili, Department of Mathematics, Faculty of Mathematical Sciences, 56199-1136 Ardabil, Iran, and **Ilgin Sager** (ilginsager81@gmail.com), Missouri University of Science and Technology, Department of Mathematics and Statistics, Rolla, MO 65409-0020. *On the Stationary Acceleration of the Frenet Curves in 3-Dimensional Lie Groups.*

In this paper, the stationary acceleration of the spherical general helix in a 3-dimensional Lie group is studied by using a bi-invariant metric. The relationship between the Frenet elements of the stationary acceleration curve in 4-dimensional Euclidean space and the intrinsic Frenet elements of the Lie group is outlined. As a consequence, the corresponding curvature and torsion of these curves are computed. In Minkowski space, for the curves on a timelike surface, to have a stationary acceleration, a necessary and sufficient condition is refined. (Received April 14, 2016)