

# LIE GROUPS AND THEIR PROPERTIES

Raghvendra Dubey  
MA12C030  
2014

In this seminar project we define the concept of Lie groups and their properties as introduced by Sophus Lie in the 19<sup>th</sup> century. Lie group is the intersection of two fundamental fields of Mathematics via Algebra and Geometry. A Lie group is a group with a specific kind of geometrical property which is called a manifold. These Lie groups find applications in computer science and modern physics.