

Basic Lie Theory

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VERY BASIC LIE THEORY. ROGER HOWE Department of Mathematics, Yale University, New Haven, CT 06520. Lie theory, the theory of Lie groups, Lie algebras and their applications, is a fundamental part of mathematics. Since World War II it has been the focus of a burgeoning research effort, and is now seen to touch a tremendous spectrum of mathematical areas, including classical, differential, and algebraic geometry, topology, ordinary and partial differential equations, complex analysis (one and ...

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For a Lie group G with the Lie algebra g, Ad : G -> GL(g) is the adjoint representation taking x -> G to Adx -> GL(g), and its image, the adjoint group, is denoted AdG. If H -> G then AdG(H) is the image of H under Ad and where is no risk of confusion we will simply write Ad(H). The Lie algebra representation ad : g -> gl(g) takes a vector X to adX -> gl(g).

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Lie theory. In mathematics, the researcher Sophus Lie (/ li / LEE) initiated lines of study involving integration of differential equations, transformation groups, and contact of spheres that have come to be called Lie theory. For instance, the latter subject is Lie sphere geometry.

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Lie theory is by no means simple. To grasp a minimum idea of what LT can be, we may consider the following three references. First, Abbaspour ' s " Basic Lie theory " [1] comprises more than 400 pages. With a similar title, Howe ' s " Very basic Lie theory " [2] comprises 24 (dense) pages, and is sometimes considered a must-read introduction. Finally,

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VERY BASIC LIE THEORY ROGER HOWE Department of Mathematics, Yale University, New Haven, CT 06520 Lie theory, the theory of Lie groups, Lie algebras and their applications, is a fundamental part of mathematics. Since World War II it has been the focus of a burgeoning research effort, and is

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Here we use vector fields to build the key tools of Lie theory. The Lie functor which associates a Lie algebra with a Lie group and the exponential function from the Lie algebra to the Lie group. They provide the means to translate global problems into infinitesimal ones and to lift infinitesimal solutions to local ones.

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This chapter is devoted to the subject proper of this book: Lie groups, defined as smooth manifolds with a group structure such that all structure maps (multiplication and inversion) are smooth. Here we use vector fields to build the key tools of Lie theory. The Lie functor which associates a Lie algebra with a Lie group and the exponential function from the Lie algebra to the Lie group.