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Types, Methods & Examples In studying such groups we can use tools from calculus to linearise our problems, which leads us to the notion of a Lie algebra: a vector space with an antisymmetric product associated to any Lie group, which remembers everything about its algebraic structure. MATH0075 (Lie Groups and Lie Algebras) Lie groups and Lie algebras, together called Lie theory, originated in the study of natural symmetries of solutions of differential equations. Lie groups, Lie algebras, and their representations In general Lie theory is strongly rooted in topology and the group structure of smooth differentiable manifolds. This, however, is beyond the scope of this paper. Since we only aim to introduce the fundamental concepts of Lie theory we choose to narrow our focus onto matrix Lie groups or Lie groups whose elements are all matrices.

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