

## Lie Groups Univie

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Representation theory of Lie groups and Lie algebras - Lec 17 - Frederic Schuller

Lie groups and Lie algebras: Further reading

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(1)  $\mathbb{R}$  and  $\mathbb{C}$  are evidently Lie groups under addition. More generally, any finite dimensional real or complex vector space is a Lie group under addition. (2)  $\mathbb{R}^n$ ,  $\mathbb{R}^n$ ,  $\mathbb{C}^n$  are all Lie groups under multiplication. Also  $U(1) := \{z \in \mathbb{C} : |z|=1\}$  is a Lie group under multiplication. (3) If  $G$  and  $H$  are Lie groups then the product  $G \times H$  is a Lie group with the

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representations is used in various parts of mathematics. As groups of symmetries, Lie groups occur Lie Groups - univie.ac.at 1 Lie Groups Definition (4.1.1) A Lie Group  $G$  is a set that is a group a differential manifold with the property that :  $G \times G \rightarrow G$   $(g_1, g_2) \mapsto g_1 g_2$  and  $i: G \rightarrow G$   $g \mapsto g^{-1}$  are smooth.

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Fundamental facts on Lie groups, their relation to Lie algebras, their role as groups of symmetries, and on the theory of compact Lie groups and their representations. The usual standards for the master program will be imposed.

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PDF Lie Groups Univie Lie Groups - mat.univie.ac.at Abstract: Groups of diffeomorphisms of a manifold  $M$  have many of the properties of finite dimensional Lie groups, but also differ in surprising ways. I review some (or all or more) of the following properties or I do something else: No complexification.

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Lie Groups Univie Lie Groups Fall Term 2018/19 Andreas Cap Institut für Mathematik, Universität Wien, Oskar-Morgenstern-Platz 1, A-1090 Wien E-mail address: Andreas.Cap@univie.ac.at Lie Groups - univie.ac.at 1 Lie Groups Definition (4.1.1) A Lie Group  $G$  is a set that is a group a differential manifold with the property that :  $G \cong G(g_1; g_2)$

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1 Lie Groups Definition (4.1.1) A Lie Group  $G$  is a set that is a group a differential manifold with the property that :  $G \cong G(g_1; g_2)$  and  $i: G \rightarrow G$  are smooth. Definition (4.1.2) A Lie Subgroup of  $G$  is a subset  $H$  of  $G$  such that (i)  $H$  is a subgroup of  $G$  and (ii)  $H$  is a submanifold of  $G$  and (iii) topological group with respect to subspace topology.

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1 Lie Groups - univie.ac.at  $n(\mathbb{R}) : \det(A) = 1$  is a Lie group and determine the tangent space to  $SL(n; \mathbb{R})$  in the unit matrix. (2) Let  $O(n) \subset M_n(\mathbb{R})$  be the set of all orthogonal matrices of size  $n \times n$ . Show that  $O(n)$  is a Lie group. (Hint: Consider  $A \mapsto A^T A$  as a function from  $M_n(\mathbb{R})$  to the space of symmetric  $n \times n$ -matrices.

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If a connected Banach-Lie group  $G$  acts effectively, transitively and smoothly on a compact manifold, then  $G$  must be a finite-dimensional Lie group. A short introduction to convenient calculus in infinite dimensions. Traditional differential calculus works well for finite dimensional vector spaces and for Banach spaces.

Infinite dimensional Lie groups: Diffeomorphism groups

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In mathematics, a Lie group (pronounced /liː/ "Lee") is a group whose elements are organized continuously and smoothly, as opposed to discrete groups, where the elements are separated—this makes Lie groups differentiable manifolds.