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**Introduction to Lie Groups Autumn 2020 - ETH Z**

(iii) The multiplicative groups  $(\mathbb{R}^n, \cdot)$  and  $(\mathbb{C}^n, \cdot)$  of the  $n$ -tuples  $\mathbb{R}^n$  and  $\mathbb{C}^n$  respectively, equipped with the topologies induced from the respective Euclidean topologies, are topological groups. When it comes to the structure theory of Lie groups, Examples (ii) and (iii) will be considered elementary and left without further analysis.

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Prerequisites: Lie Groups I, Lie Groups II (Symmetric Spaces). Contents: Symmetric spaces of non-compact type: Roots and root systems. Characterizations of the Weyl group and its action on the Weyl chambers. Geometric boundary and its characterization via Busemann functions. The space  $SL(n, \mathbb{R})/SO(n)$  and the Imbedding Theorem.

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This text treats Lie groups, Lie algebras, and their representations. My pedagogical goals are twofold. First, I strive to develop the theory of Lie groups in an elementary fashion, with minimal prerequisites. In particular, in Part I, I develop the theory of (matrix) Lie groups and their Lie algebras using only linear algebra, without

### **Brian C. Hall Lie Groups, Lie Algebras, and Representations**

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