### Notes on Algebra

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### **Chapter 1**

## **Representation theory**

#### 1.1 Lie group

In subsequent sections, we will discuss the representation of the groups. Before going into such a subject, let us review the properties of groups, especially the Lie group.

#### 1.2 Definition of the Lie group

# **Bibliography**

[Hum72] J. E. Humphreys, *Introduction to Lie Algebras and Representation Theory*, Graduate Texts in Mathematics, vol. 9, Springer New York, New York, NY, 1972. http://link.springer.com/10.1007/978-1-4612-6398-2.