

Introduction to Topological Groups

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To the memory of Ivan Prodanov (1935 – 1985)

Abstract

These notes provide a brief introduction to topological groups with a special emphasis on Pontryagin-van Kampen's duality theorem for locally compact abelian groups. We give a completely self-contained elementary proof of the theorem following the line from [41, 46]. According to the classical tradition, the structure theory of the locally compact abelian groups is built parallelly.

1 Introduction

Let \mathcal{L} denote the category of locally compact abelian groups and continuous homomorphisms and let $\mathbb{T} = \mathbb{R}/\mathbb{Z}$ be the unit circle group. For $G \in \mathcal{L}$ denote by \widehat{G} the group of continuous homomorphisms (characters) $G \rightarrow \mathbb{T}$ equipped with the compact-open topology. Then the assignment

$$G \mapsto \widehat{G}$$

is a contravariant endofunctor $\widehat{} : \mathcal{L} \rightarrow \mathcal{L}$. The celebrated Pontryagin-van Kampen duality theorem ([97]) says that this functor is, up to natural equivalence, an involution i.e., $\widehat{\widehat{G}} \cong G$ (see Theorem 11.5.4 for more detail). Moreover, this functor sends compact groups to discrete ones and viceversa, i.e., it defines a duality between the subcategory \mathcal{C} of compact abelian groups and the subcategory \mathcal{D} of discrete abelian groups. This allows for a very efficient and fruitful tool for the study of compact abelian groups, reducing all problems to the related problems in the category of discrete groups. The reader is advised to give a look at the Mackey's beautiful survey [90] for the connection of characters and Pontryagin-van Kampen duality to number theory, physics and elsewhere. This duality inspired a huge amount of related research also in category theory, a brief comment on a specific categorical aspect (uniqueness and representability) can be found in §8.1 of the Appendix.

The aim of these notes is to provide a self-contained proof of this remarkable duality theorem, providing all necessary steps, including basic background on topological groups and the structure theory of locally compact abelian groups. Peter-Weyl's theorem asserting that the continuous characters of the compact abelian groups separate the points of the groups (see Theorem 10.3.1) is certainly the most important tool in proving the duality theorem. The usual proof of Peter-Weyl's theorem involves Haar integration in order to produce sufficiently many finite-dimensional unitary representations. In the case of abelian groups the irreducible ones turn out to be one-dimensional, i.e., characters. We prefer here a different approach. Namely, Peter-Weyl's theorem can be obtained as an immediate corollary of a theorem of Folner (Theorem 10.1.1) whose elementary proof uses nothing beyond elementary properties of the finite abelian groups, a local version of the Stone-Weierstraß approximation theorem proved in §2 and the Stone-Čech compactification of discrete spaces. As another application of Folner's theorem we describe the precompact groups (i.e., the subgroups of the compact groups) as having a topology generated by continuous characters. As a third application of Folner's theorem one can obtain the existence of the Haar integral on locally compact abelian groups for free (see [41, §2.4, Theorem 2.4.5], Corollary 10.4.17 settles the case of compact abelian groups).

The notes are organized as follows. In Section 2 we recall basic results and notions on abelian groups and general topology, which will be used in the rest of the paper. Section 3 contains background on topological groups, starting from scratch. Various ways of introducing a group topology are considered (§3.2), of which the prominent one is by means of characters (§3.2.3). In §4.3 we recall the construction of Protasov and Zelenyuk [104] of topologies arising from a given sequence that is required to be convergent to 0.

In §4.1 we discuss separation axioms and metrizable of topological groups. Connectedness and related properties in topological groups are discussed in §4.2.

In §5 the Markov's problems on the existence of non-discrete Hausdorff group topologies is discussed. In §5.1 we introduce two topologies, the Markov topology and the Zariski topology, that allow for an easier understanding of Markov's problems. In §5.2 we describe the Markov topology of the infinite permutation groups, while §5.3 contains the first two examples of non-topologizable groups, given by Shelah and Ol'shanskii, respectively. The problems arising in

An Introduction To Topological Groups

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Table of Contents An Introduction To Topological Groups

1. Understanding the eBook An Introduction To Topological Groups
 - The Rise of Digital Reading An Introduction To Topological Groups
 - Advantages of eBooks Over Traditional Books
2. Identifying An Introduction To Topological Groups
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an An Introduction To Topological Groups
 - User-Friendly Interface
4. Exploring eBook Recommendations from An Introduction To Topological Groups
 - Personalized Recommendations
 - An Introduction To Topological Groups User Reviews and Ratings
 - An Introduction To Topological Groups and Bestseller Lists

5. Accessing An Introduction To Topological Groups Free and Paid eBooks
 - An Introduction To Topological Groups Public Domain eBooks
 - An Introduction To Topological Groups eBook Subscription Services
 - An Introduction To Topological Groups Budget-Friendly Options
6. Navigating An Introduction To Topological Groups eBook Formats
 - ePub, PDF, MOBI, and More
 - An Introduction To Topological Groups Compatibility with Devices
 - An Introduction To Topological Groups Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of An Introduction To Topological Groups
 - Highlighting and Note-Taking An Introduction To Topological Groups
 - Interactive Elements An Introduction To Topological Groups
8. Staying Engaged with An Introduction To Topological Groups
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers An Introduction To Topological Groups
9. Balancing eBooks and Physical Books An Introduction To Topological Groups
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection An Introduction To Topological Groups
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine An Introduction To Topological Groups
 - Setting Reading Goals An Introduction To Topological Groups
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of An Introduction To Topological Groups
 - Fact-Checking eBook Content of An Introduction To Topological Groups
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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