

# An Introduction to Homological Algebra

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## 1 Introduction

While it began as a tool in algebraic topology, the last fifty years have seen homological algebra grow into an indispensable tool for algebraists, topologists, and geometers.

## 2 Preliminaries

Before we can truly begin, we must first introduce some basic concepts. Throughout,  $R$  will denote a commutative ring (though very little actually depends on commutativity). For the sake of discussion, one may assume either that  $R$  is a field (in which case we will have chain complexes of vector spaces) or that  $R = \mathbb{Z}$  (in which case we will have chain complexes of abelian groups).

### 2.1 Chain Complexes

**Definition 2.1.** A **chain complex** is a collection of  $\{C_i\}_{i \in \mathbb{Z}}$  of  $R$ -modules and maps  $\{d_i : C_i \rightarrow C_{i-1}\}$  called **differentials** such that  $d_{i-1} \circ d_i = 0$ . Similarly, a **cochain complex** is a collection of  $\{C^i\}_{i \in \mathbb{Z}}$  of  $R$ -modules and maps  $\{d^i : C^i \rightarrow C^{i+1}\}$  such that  $d^{i+1} \circ d^i = 0$ .

$$\cdots \longrightarrow C_{i+1} \xrightarrow{d_{i+1}} C_i \xrightarrow{d_i} C_{i-1} \longrightarrow \cdots$$

**Remark 2.2.** The only difference between a chain complex and a cochain complex is whether the maps go up in degree (are of degree 1) or go down in degree (are of degree  $-1$ ). Every chain complex is canonically a cochain complex by setting  $C^i = C_{-i}$  and  $d^i = d_{-i}$ .

**Remark 2.3.** While we have assumed complexes to be infinite in both directions, if a complex begins or ends with an infinite number of zeros, we can suppress these zeros and discuss finite or **bounded complexes**. Additionally, if  $C_i = 0$  for all sufficiently large or sufficiently small values of  $i$ , then we say that the complex is **bounded above** or **bounded below**.

To ease notation, the subscripts and superscripts on differentials will be suppressed. For example, the condition that one has a chain complex becomes  $d^2 = 0$ .

**Definition 2.4.** Given two chain complexes  $C = (C_i, d)$  and  $C' = (C'_i, d')$ , a **chain map** between them is a collection of maps  $f = \{f_i : C_i \rightarrow C'_i\}$  such that  $d' \circ f_i = f_{i-1} \circ d$ , i.e., the following diagram commutes.

$$\begin{array}{ccccccc} \cdots & \longrightarrow & C_{i+1} & \xrightarrow{d_{i+1}} & C_i & \xrightarrow{d_i} & C_{i-1} & \longrightarrow & \cdots \\ & & \downarrow f_{i+1} & & \downarrow f_i & & \downarrow f_{i-1} & & \\ \cdots & \longrightarrow & C'_{i+1} & \xrightarrow{d'_{i+1}} & C'_i & \xrightarrow{d'_i} & C'_{i-1} & \longrightarrow & \cdots \end{array}$$

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**Didier Musso**



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