16
A diagram of categories

16.1 The diagram

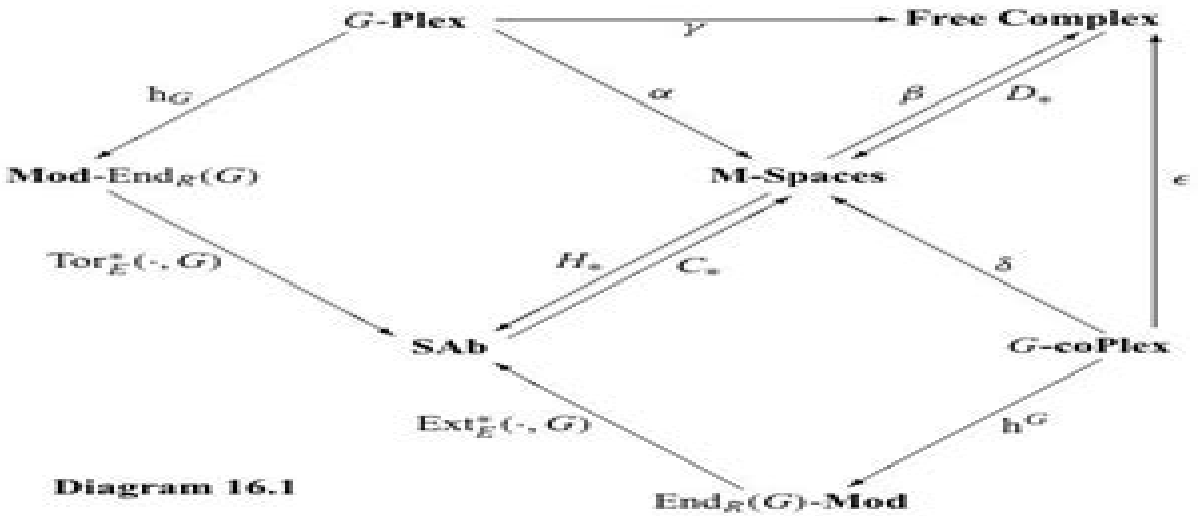

Diagram 16.1

The work in this chapter appears in [45].

Throughout this section G denotes a right R-module, not necessarily self-small or self-slender. We will construct a commutative diagram, Diagram (16.1), that contains the category of abelian groups, the categories of left modules and right modules over a ring, categories of complexes, and categories of point set topological spaces.

Let **Ab** denote the category of abelian groups, and let **SAb** denote the category of sequences $(\ldots, A_2, A_1)$ of abelian groups A_k. A map f in **SAb** is a sequence

$$f = (\ldots, f_2, f_1) : (\ldots, A_2, A_1) \longrightarrow (\ldots, B_2, B_1)$$

of abelian group maps $f_k : A_k \longrightarrow B_k$ for each integer $k \geq 1$.

Let **Complex** denote the category whose objects are complexes Q of right R-modules and whose maps are the homotopy equivalence classes $[f]$ of chain maps

Categories Of Modules Over Endomorphism

Nicolae Popescu

Categories Of Modules Over Endomorphism:

Categories of Modules over Endomorphism Rings Theodore Gerard Faticoni,1993 It is the goal of the memoir to develop a functorial transfer of properties between italic capital A and script capital M subscript italic capital E the category of modules over italic capital E that is more sensitive than the traditional starting point Hom italic capital A This memoir should be accessible to anyone who has a working knowledge of rings modules functors and categories equivalent to that gained by reading Anderson and Fuller s text Rings and Categories of Modules *Modules over Discrete Valuation Rings* Piotr A. Krylov,Askar A. Tuganbaev,2018-09-24 This book provides the first systematic treatment of modules over discrete valuation domains which play an important role in various areas of algebra especially in commutative algebra Many important results representing the state of the art are presented in the text along with interesting open problems This updated edition presents new approaches on p adic integers and modules and on the determinability of a module by its automorphism group Contents Preliminaries Basic facts Endomorphism rings of divisible and complete modules Representation of rings by endomorphism rings Torsion free modules Mixed modules Determinity of modules by their endomorphism rings Modules with many endomorphisms or automorphisms **Approximations and Endomorphism Algebras of Modules** Rüdiger Göbel,Jan Trlifaj,2012-10-01 This second revised and substantially extended edition of Approximations and Endomorphism Algebras of Modules reflects both the depth and the width of recent developments in the area since the first edition appeared in 2006 The new division of the monograph into two volumes roughly corresponds to its two central topics approximation theory Volume 1 and realization theorems for modules Volume 2 It is a widely accepted fact that the category of all modules over a general associative ring is too complex to admit classification Unless the ring is of finite representation type we must limit attempts at classification to some restricted subcategories of modules The wild character of the category of all modules or of one of its subcategories C is often indicated by the presence of a realization theorem that is by the fact that any reasonable algebra is isomorphic to the endomorphism algebra of a module from C This results in the existence of pathological direct sum decompositions and these are generally viewed as obstacles to classification In order to overcome this problem the approximation theory of modules has been developed The idea here is to select suitable subcategories C whose modules can be classified and then to approximate arbitrary modules by those from C These approximations are neither unique nor functorial in general but there is a rich supply available appropriate to the requirements of various particular applications The authors bring the two theories together The first volume Approximations sets the scene in Part I by introducing the main classes of modules relevant here the S complete pure injective Mittag Leffler and slender modules Parts II and III of the first volume develop the key methods of approximation theory Some of the recent applications to the structure of modules are also presented here notably for tilting cotilting Baer and Mittag Leffler modules In the second volume Predictions further basic instruments are introduced the prediction principles and their applications to proving realization theorems Moreover tools

are developed there for answering problems motivated in algebraic topology The authors concentrate on the impossibility of classification for modules over general rings The wild character of many categories C of modules is documented here by the realization theorems that represent critical R algebras over commutative rings R as endomorphism algebras of modules from C The monograph starts from basic facts and gradually develops the theory towards its present frontiers It is suitable both for graduate students interested in algebra and for experts in module and representation theory **Direct Sum Decompositions of Torsion-Free Finite Rank Groups** Theodore G. Faticoni,2007-03-28 With plenty of new material not found in other books Direct Sum Decompositions of Torsion Free Finite Rank Groups explores advanced topics in direct sum decompositions of abelian groups and their consequences The book illustrates a new way of studying these groups while still honoring the rich history of unique direct sum decompositions of groups **Groups, Modules, and Model Theory - Surveys and Recent Developments** Manfred Droste,László Fuchs,Brendan Goldsmith,Lutz Strüngmann,2017-06-02 This volume focuses on group theory and model theory with a particular emphasis on the interplay of the two areas The survey papers provide an overview of the developments across group module and model theory while the research papers present the most recent study in those same areas With introductory sections that make the topics easily accessible to students the papers in this volume will appeal to beginning graduate students and experienced researchers alike As a whole this book offers a cross section view of the areas in group module and model theory covering topics such as DP minimal groups Abelian groups countable 1 transitive trees and module approximations The papers in this book are the proceedings of the conference New Pathways between Group Theory and Model Theory which took place February 1 4 2016 in M lheim an der Ruhr Germany in honor of the editors colleague R diger G bel This publication is dedicated to Professor G bel who passed away in 2014 He was one of the leading experts in Abelian group theory ,2007 **Abelian Categories with Applications to Rings and Modules** Nicolae Popescu,1973 **Representation Dimension of Artin Algebras** Maurice Auslander,Bernice Auslander,1976 **Moduled Categories and Adjusted Modules Over Traced Rings** Daniel Simson,1990 *Algebra: Rings, Modules and Categories [by] Carl Faith* Carl Faith,1973 **Reviews in Ring Theory** Lance W. Small,1981 Mathematical Reviews ,2006 *Quaestiones Mathematicae* ,1996 *Notices of the American Mathematical Society* American Mathematical Society,1993 **Moscow University Mathematics Bulletin** Московский государственный университет им. М.В. Ломоносова,1988 Mathematics of the USSR. ,1974 Comprehensive Dissertation Index: Mathematics & statistics. Physics, A-E ,1984 **Reviews in Ring Theory, 1980-84** Lance W. Small,1986 Science Reports of the Tōkyō Kyōiku Daigaku ,1958 *Algebra Colloquium* ,2004 Algebra Colloquium the quarterly journal of the Chinese Academy of Sciences Beijing China carries research articles in the field of pure and applied algebra It may also include papers from related areas which have applications to algebra

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