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**Cohen-Macaulay
Modules over
Cohen-Macaulay
Rings**

YUJI YOSHINO

CAMBRIDGE UNIVERSITY PRESS

Maximal Cohen Macaulay Modules Over Cohen Macaulay Rings

Maurice Auslander



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Yoshino, 1990 Maximal Cohen-Macaulay Modules over Cohen-Macaulay Rings Y. Yoshino, 1990-06-28 The purpose of these notes is to explain in detail some topics on the intersection of commutative algebra representation theory and singularity theory They are based on lectures given in Tokyo but also contain new research It is the first cohesive account of the area and will provide a useful synthesis of recent research for algebraists **Maximal Cohen-Macaulay Modules**

Over Cohen-Macaulay Rings Y. Yoshino, 1990 The purpose of these notes is to explain in detail some topics on the intersection of commutative algebra representation theory and singularity theory They are based on lectures given in Tokyo but also contain new research It is the first cohesive account of the area and will provide a useful synthesis of recent research for algebraists **Maximal Cohen-Macaulay Modules Over Non-Isolated Surface Singularities and Matrix**

Problems Igor Burban, Yuriy Drozd, 2017-07-13 In this article the authors develop a new method to deal with maximal Cohen Macaulay modules over non isolated surface singularities In particular they give a negative answer on an old question of Schreyer about surface singularities with only countably many indecomposable maximal Cohen Macaulay modules Next the authors prove that the degenerate cusp singularities have tame Cohen Macaulay representation type The authors approach is illustrated on the case of k as well as several other rings This study of maximal Cohen Macaulay modules over non isolated singularities leads to a new class of problems of linear algebra which the authors call representations of decorated bunches of chains They prove that these matrix problems have tame representation type and describe the underlying canonical forms

Maximal Cohen-Macaulay Modules and Tate Cohomology Ragnar-Olaf Buchweitz, 2021-12-16 This book is a lightly edited version of the unpublished manuscript Maximal Cohen Macaulay modules and Tate cohomology over Gorenstein rings by Ragnar Olaf Buchweitz The central objects of study are maximal Cohen Macaulay modules over not necessarily commutative Gorenstein rings The main result is that the stable category of maximal Cohen Macaulay modules over a Gorenstein ring is equivalent to the stable derived category and also to the homotopy category of acyclic complexes of projective modules This assimilates and significantly extends earlier work of Eisenbud on hypersurface singularities There is also an extensive discussion of duality phenomena in stable derived categories extending Tate duality on cohomology of finite groups Another noteworthy aspect is an extension of the classical BGG correspondence to super algebras There are numerous examples that illustrate these ideas The text includes a survey of developments subsequent to and connected with Buchweitz's manuscript **Cohen-Macaulay Rings** Winfried Bruns, H. Jürgen Herzog, 1998-06-18 In the last two decades

Cohen Macaulay rings and modules have been central topics in commutative algebra This book meets the need for a

thorough self contained introduction to the homological and combinatorial aspects of the theory of Cohen Macaulay rings Gorenstein rings local cohomology and canonical modules A separate chapter is devoted to Hilbert functions including Macaulay s theorem and numerical invariants derived from them The authors emphasize the study of explicit specific rings making the presentation as concrete as possible So the general theory is applied to Stanley Reisner rings semigroup rings determinantal rings and rings of invariants Their connections with combinatorics are highlighted e g Stanley s upper bound theorem or Ehrhart s reciprocity law for rational polytopes The final chapters are devoted to Hochster s theorem on big Cohen Macaulay modules and its applications including Peskine Szpiro s intersection theorem the Evans Griffith syzygy theorem bounds for Bass numbers and tight closure Throughout each chapter the authors have supplied many examples and exercises which combined with the expository style will make the book very useful for graduate courses in algebra As the only modern broad account of the subject it will be essential reading for researchers in commutative algebra

Topics in the Homological Theory of Modules Over Commutative Rings Melvin Hochster,1975-12-31 This volume contains expository lectures by Melvin Hochster from the CBMS Regional Conference in Mathematics held at the University of Nebraska June 1974 The lectures deal mainly with recent developments and still open questions in the homological theory of modules over commutative usually Noetherian rings A good deal of attention is given to the role big Cohen Macaulay modules play in clearing up some of the open questions A modest knowledge of commutative rings and familiarity with the long exact sequences for Tor and Ext should suffice as a background for the reader

Cohen-Macaulay Representations Graham J. Leuschke,Roger Wiegand,2012-05-02 This book is a comprehensive treatment of the representation theory of maximal Cohen Macaulay MCM modules over local rings This topic is at the intersection of commutative algebra singularity theory and representations of groups and algebras Two introductory chapters treat the Krull Remak Schmidt Theorem on uniqueness of direct sum decompositions and its failure for modules over local rings Chapters 3 10 study the central problem of classifying the rings with only finitely many indecomposable MCM modules up to isomorphism i e rings of finite CM type The fundamental material ADE simple singularities the double branched cover Auslander Reiten theory and the Brauer Thrall conjectures is covered clearly and completely Much of the content has never before appeared in book form Examples include the representation theory of Artinian pairs and Burban Drozd s related construction in dimension two an introduction to the McKay correspondence from the point of view of maximal Cohen Macaulay modules Auslander Buchweitz s MCM approximation theory and a careful treatment of nonzero characteristic The remaining seven chapters present results on bounded and countable CM type and on the representation theory of totally reflexive modules

Maximal Cohen-Macaulay modules over rings of type $x t + y^3$ Bernd Martin,1996

Maximal Cohen-Macaulay modules over rings of type $x t + y^3$ Bernd Martin,Gerhard Pfister,Dorin Popescu,1996

Representation Theory and Algebraic Geometry A. Martsinkovsky,Gordana Todorov,1997-05-15 For any researcher working in representation theory algebraic or arithmetic

geometry Trends in Representation Theory of Algebras and Related Topics Andrzej Skowroński, 2008 This book is concerned with recent trends in the representation theory of algebras and its exciting interaction with geometry topology commutative algebra Lie algebras quantum groups homological algebra invariant theory combinatorics model theory and theoretical physics The collection of articles written by leading researchers in the field is conceived as a sort of handbook providing easy access to the present state of knowledge and stimulating further development The topics under discussion include diagram algebras Brauer algebras cellular algebras quasi hereditary algebras Hall algebras Hecke algebras symplectic reflection algebras Cherednik algebras Kashiwara crystals Fock spaces preprojective algebras cluster algebras rank varieties varieties of algebras and modules moduli of representations of quivers semi invariants of quivers Cohen Macaulay modules singularities coherent sheaves derived categories spectral representation theory Coxeter polynomials Auslander Reiten theory Calabi Yau triangulated categories Poincare duality spaces selfinjective algebras periodic algebras stable module categories Hochschild cohomologies deformations of algebras Galois coverings of algebras tilting theory algebras of small homological dimensions representation types of algebras and model theory This book consists of fifteen self contained expository survey articles and is addressed to researchers and graduate students in algebra as well as a broader mathematical community They contain a large number of open problems and give new perspectives for research in the field

Special Conditions on Maximal Cohen-Macaulay Modules, and Applications to the Theory of Multiplicities

Douglas Hanes, 1999 Commutative Algebra, Singularities and Computer Algebra Jürgen Herzog, Victor

Vuletescu, 2012-12-06 Proceedings of the NATO Advanced Research Workshop held in Sinaia Romania 17-22 September 2002

Representations of Algebras P. Webb, 1986-01-08 The latest developments in representation theory with emphasis on the representation type of finite dimensional algebras **Relative Homological Algebra** Edgar E. Enochs, Overtoun M. G.

Jenda, 2011-10-27 This is the second revised edition of an introduction to contemporary relative homological algebra It supplies important material essential to understand topics in algebra algebraic geometry and algebraic topology Each section comes with exercises providing practice problems for students as well as additional important results for specialists In this new edition the authors have added well known additional material in the first three chapters and added new material that was not available at the time the original edition was published In particular the major changes are the following Chapter 1 Section 1.2 has been rewritten to clarify basic notions for the beginner and this has necessitated a new Section 1.3 Chapter 3 The classic work of D. G. Northcott on injective envelopes and inverse polynomials is finally included This provides additional examples for the reader Chapter 11 Section 11.9 on Kaplansky classes makes volume one more up to date The material in this section was not available at the time the first edition was published The authors also have clarified some text throughout the book and updated the bibliography by adding new references The book is also suitable for an introductory course in commutative and ordinary homological algebra *Selected Works of Maurice Auslander* Maurice Auslander, 1999 Auslander

made contributions to many parts of algebra and this 2 volume set the set ISBN is 0 8218 0679 3 already published contains a selection of his main work Algebras and Modules I Idun Reiten, Sverre O. Smalø, Øyvind Solberg, Canadian Mathematical Society, 1998 Surveys developments in the representation theory of finite dimensional algebras and related topics in seven papers illustrating different techniques developed over the recent years For graduate students and researchers with a background in commutative algebra including rings modules and homological algebra Suitable as a text for an advanced graduate course No index Member prices are 31 for institutions and 23 for individuals and are available to members of the Canadian Mathematical Society Annotation copyrighted by Book News Inc Portland OR Infinite Length Modules Henning Krause, Claus M. Ringel, 2012-12-06 This volume presents the invited lectures of a conference devoted to Infinite Length Modules held at Bielefeld September 7 11 1998 Some additional surveys have been included in order to establish a unified picture The scientific organization of the conference was in the hands of K Brown Glasgow P M Cohn London I Reiten Trondheim and C M Ringel Bielefeld The conference was concerned with the role played by modules of infinite length when dealing with problems in the representation theory of algebras The investigation of such modules always relies on information concerning modules of finite length for example simple modules and their possible extensions But the converse is also true recent developments in representation theory indicate that a full understanding of the category of finite dimensional modules even over a finite dimensional algebra requires consideration of infinite dimensional thus infinite length modules For instance the important notion of tameness uses one parameter families of modules or alternatively generic modules and they are of infinite length If one tries to exhibit a presentation of a module category it turns out to be essential to take into account the indecomposable modules which are algebraically compact or equivalently pure injective Specific methods have been developed over the last few years dealing with such special situations as group algebras of finite groups or noetherian rings and there are surprising relations to topology and geometry The conference outlined the present state of the art

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