

Cambridge University Press

978-1-107-14972-4 - Commutative Algebra and Noncommutative Algebraic Geometry:
Volume II: Research ArticlesEdited by David Eisenbud, Srikanth B. Iyengar, Anurag K. Singh, J. Toby Stafford and
Michel Van Den Bergh

Table of Contents

[More information](#)Commutative Algebra and Noncommutative Algebraic Geometry, II
MSRI Publications
Volume 68, 2015

Contents

Preface	ix
When is a squarefree monomial ideal of linear type? ALI ALILOOEE AND SARA FARIDI	1
Modules for elementary abelian groups and hypersurface singularities DAVID J. BENSON	19
Ideals generated by superstandard tableaux ANDREW BERGET, WINFRIED BRUNS AND ALDO CONCA	43
Zariski topologies on stratified spectra of quantum algebras KENNETH A. BROWN AND KENNETH R. GOODEARL	63
The derived category of a graded Gorenstein ring JESSE BURKE AND GREG STEVENSON	93
Singularities with respect to Mather–Jacobian discrepancies LAWRENCE EIN AND SHIHOKO ISHII	125
Reduction numbers and balanced ideals LOUIZA FOULI	169
Unipotent and Nakayama automorphisms of quantum nilpotent algebras KENNETH R. GOODEARL AND MILEN T. YAKIMOV	181
Formal fibers of prime ideals in polynomial rings WILLIAM HEINZER, CHRISTEL ROTTHAUS AND SYLVIA WIEGAND	213
Bounding the socles of powers of squarefree monomial ideals JÜRGEN HERZOG AND TAKAYUKI HIBI	223
An intriguing ring structure on the set of d -forms JÜRGEN HERZOG, LEILA SHARIFAN AND MATTEO VARBARO	231
On the subadditivity problem for maximal shifts in free resolutions JÜRGEN HERZOG AND HEMA SRINIVASAN	245
The cone of Betti tables over a rational normal curve MANOJ KUMMINI AND STEVEN V SAM	251
Adjoint associativity: an invitation to algebra in ∞ -categories JOSEPH LIPMAN	265