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Representation Theory: A Homological Algebra Point of View ...

The following statement from Zimmermann's Preface comprises something of a characterization of the book's raison d'etre: "The bridge from the representation theory of algebras to the representation theory of groups via homological algebra was fully established in 1989, when Rickard proved a Morita theory for derived categories and ...

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category of G ...

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Representation Theory: A Homological Algebra Point of View ...

This text presents six mini-courses, all devoted to interactions between representation theory of algebras, homological algebra, and the new ever-expanding theory of cluster algebras. The interplay between the topics discussed in this text will continue to grow and this collection of courses stands as a partial testimony to this new development.

Homological Methods, Representation Theory, and Cluster ...

Homological algebra 205 x8.1. Projective and injective modules 205 x8.2. Tor and Ext functors 207 Chapter 9. Structure of finite dimensional algebras 213 ... Representation theory was born in 1896 in the work of the German mathematician F. G. Frobenius. This work was triggered by a

Introduction to representation theory

Readership. Graduate students and research mathematicians interested in functor categories, triangulated categories, module theory, homological algebras, and combinatorial methods in representation theory of quivers.

Surveys in Representation Theory of Algebras

Michael Barot, Introduction to the Representation Theory of Algebras Karin Erdmann and Thorsten Holm, Algebras and Representation Theory Charles Weibel, An Introduction to Homological Algebra Printed copies are available in the library of: Charles Curtis and Irving Reiner, Representation theory of finite groups and associative algebras

Representation Theory 1 - uni-stuttgart.de

Some representation theory arising from set-theoretic homological algebra Jan Trlifaj Univerzita Karlova, Praha Maurice Auslander International Conference Woods Hole, April 27th, 2016 Jan Trlifaj (Univerzita Karlova, Praha) Set-theoretic homological algebra 1 / 32

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II. Homological Algebra. Complexes, injective and projective resolutions. Derived functors, homology and cohomology. Ext and Tor and relations to extensions. Optional: Group cohomology. III. Representation Theory. Basic definitions of representation theory of algebras, particularly modules over group rings.

MATH 6320 Algebra | pi.math.cornell.edu

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