

University
of Regina

Mathematics
and
Statistics

Thursday
September 26, 2013
2:30-3:30
Classroom Building
418

Seminar 2 of 2

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University of Toronto

Yet Another Look: The McKay Correspondence, Preprojective Algebras, and Maximal Cohen-Macaulay Modules

Over the last two to three years it has come to the fore that a prominent role in a generalization of the McKay correspondence is played by higher preprojective algebras, as introduced by Keller, Amiot-Iyama-Reiten, Herschend-Iyama-Oppermann and others. This class of algebras admits a quite surprising structure theorem that has numerous applications in Algebra and Geometry and Combinatorics, with only a few facets yet explored. Here we concentrate on the application in Commutative Algebra to the classification of Maximal Cohen-Macaulay modules over certain Gorenstein rings.

