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THE BIG SINGULARITY CATEGORY OF A NON-AFFINE SCHEME

Sergio Estrada

University of Murcia

Abstract

A classic result of Buchweitz shows that the singularity category of a Gorenstein local ring A is triangulated equivalent to the stable category of finitely generated Gorenstein projective A -modules and to the homotopy category of totally acyclic complexes of finitely generated projective A -modules. In this talk we present a non-affine version of this result. To achieve this we will define a “big” version of Orlov’s singularity category. The talk is based on a project developed with Lars Christensen (Texas Tech University) and Peder Thompson (Norwegian University of Science and Technology).

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