

Gorenstein categories and universal coefficient theorems

Wednesday, October 21, 2015 4:40 PM (50 minutes)

One can frequently interpret universal coefficient theorems as computations of hom-sets in some triangulated category T via morphisms and extensions between certain cohomological functors. The relevant cohomological functors are obtained by restricting the hom-functors of T to a “suitably nice” subcategory C . I’ll discuss joint work with Ivo Dell’Ambrogio and Jan Stovicek which explains when C is “suitably nice” in terms of Gorenstein homological algebra in the category of representations of C and gives criteria to recognise suitably nice subcategories.

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Track Classification: TopAlg