

Gorenstein Homological Algebra

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Abstract

In this talk, we will consider closure under extensions of various classes of objects in an abelian category. Recently, the closure of such classes under transfinite extensions has begun to play an important role in other areas of mathematics. In particular, in this talk we will look at the Gorenstein version of a result of Auslander that supports a claim of Henrik Holm that every result in classical homological algebra has a counterpart in Gorenstein homological algebra.