

Title: On Graded Centres of Triangulated Categories and Block Cohomology

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Abstract: Any triangulated category gives rise to a graded ring which generalises the notion of the centre of a category. When applied to derived categories of blocks of group algebras this notion is closely related to block cohomology. More mysterious are graded centres of stable categories of block algebras which one would expect to be closely related to the Tate analogue of block cohomology - but it turns out, using almost split sequences, that the degree -1 component of the stable category of a block with infinite representation type is infinite dimensional.