The classification of integral endotrivial complexes

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Endotrivial complexes are the invertible objects in the derived category of permutation modules for a finite group. In this talk, we describe how to extend Miller's classification of endotrivial complexes over fields to the setting of commutative Noetherian rings.
Our approach combines techniques from representation theory, homotopy theory, and tensor-triangular geometry. This is joint work with Sam K.
Miller.