

arXiv.org > math > arXiv:1107.4764

Mathematics > Category Theory

On the derived category of a graded commutative noetherian ring

Ivo Dell'Ambrogio, Greg Stevenson

(Submitted on 24 Jul 2011 (v1), last revised 14 Sep 2011 (this version, v2))

For any graded commutative noetherian ring, where the grading group is abelian and where commutativity is allowed to hold in a quite general sense, we establish an inclusion-preserving bijection between, on the one hand, the twist-closed localizing subcategories of the derived category, and, on the other hand, subsets of the homogeneous spectrum of prime ideals of the ring. We provide an application to weighted projective schemes.

Comments:	19 pages; minor corrections, added a few details
Subjects:	Category Theory (math.CT) ; Commutative Algebra (math.AC)
MSC classes:	13A02, 13D09
Journal reference:	J. Algebra 373 (2013) 356-376
DOI:	10.1016/j.jalgebra.2012.09.038
Cite as:	arXiv:1107.4764 [math.CT]
	(or arXiv:1107.4764v2 [math.CT] for this version)

Submission history

From: Ivo Dell'Ambrogio [view email] [v1] Sun, 24 Jul 2011 15:42:13 GMT (27kb) [v2] Wed, 14 Sep 2011 09:57:22 GMT (28kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

