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On the compact exceptional objects in derived module categories.

Let A be an Artinian algebra and $D^b(A)$ be the bounded derived module category of finitely generated left A-modules. This talk will be focused on compact exceptional objects in $D^b(A)$, which include tilting objects as special examples. We describe a sufficient condition such that the lengths of all compact exceptional objects in $D^b(A)$ are bounded by the number of isomorphism classes of simple A-modules. Moreover, we show that algebras satisfying this condition are bounded derived simple; that is, $D^b(A)$ has no nontrivial recollements by bounded derived module categories of algebras. (Received January 24, 2014)