

## Dimension and approximability in triangulated categories

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The notion of the dimension of a triangulated category goes back to Rouquier's proof of Auslander's conjecture on the representation dimension of an algebra -the foundational papers date back to around 2006-08. Approximability first came up in the context of algebraic geometry, more specifically in work by Lipman and myself resolving a long-standing open problem about perfect morphisms. The paper appeared in 2007. The idea that the two might be related is much more recent, it came up only in 2015. The juxtaposition of the two techniques turns out to be a fruitful marriage. I will discuss some of the results that have been proved so far.