

Examples of tilting and cotilting functors

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Our study of Dubrovin-Puninski rings (joint with Bazzoni, Příhoda, Šaroch & Trlifaj) leads to three canonical examples of tilting functors in the covariant functor category on $\text{mod-}R$; and three canonical examples of cotilting functors in the contravariant functor category on $R\text{-mod}$. We will describe these examples and explain how three associated recollements of abelian categories arise. This work is joint with Xianhui Fu.