Recollements of derived categories arising from infinitely generated tilting modules

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Abstract

In this talk we shall present new recollements of derived module categories, which come from the endomorphism rings of infinitely generated good tilting modules. In particular, this method is applicable to the tilting modules constructed from ring epimorphisms by Angeleri-Hügel and Sánchez. In this way, we show by examples that the Jordan-Hölder theorem fails for stratifications of derived module categories by derived module categories. Thus we get a negative answer to a problem proposed by Angeleri-Hügel, König and Liu.

This is a joint work with Hongxing Chen.