

Classical tilting and tau-tilting theory

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Tau-tilting theory can be thought of as a generalization of the classical tilting theory, which allows mutations at any indecomposable summand of a support tau-tilting module. Indeed, tilting modules are tau-tilting modules and they form a subposet of the support tau-tilting poset. Conversely, we show that the tau-tilting theory of an algebra can be naturally identified with the classical tilting theory of its duplicated algebra. This extends the results of Assem-Brüstle-Schiffler-Todorov in the case of hereditary algebras.

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