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TITLE: A new characterization of tilted algebras

ABSTRACT:

By relaxing some conditions of the notion of a section in an AR-component, we obtain the notion of a cut in an AR-quiver. We shall show that a connected artin algebra is tilted if and only if its AR-quiver has a cut which is faithful and admits no maps to its AR-translate. Including all existent characterizations of this kind, this criterion not only is easy to verify but also yields a way to obtain more quotient tilted algebras from a given artin algebra.