

Bricks and generalized standard components

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This is part of a joint work with Kaveh Mousavand. In the recent years, bricks (those modules having all of their nonzero endomorphisms invertible) have been playing an important role in the study of many aspects of the representation theory of a finite dimensional algebra, including its torsion theory, its tau-tilting theory, its wall-and-chamber structure, just to name a few. In this talk, we will discuss those algebras for which their AR quiver admit a generalized standard component. We will see that these algebras are representation-infinite if and only if they are brick-infinite. Moreover, in such a case, one can always find a moduli space of positive dimension (meaning that such an algebra always has an infinite family of stable modules). We will interpret these results in the tame case, where more can be said.

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