

THE REPRESENTATION DIMENSION OF SOME CLASSES OF TAME ALGEBRAS

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ABSTRACT. In the late 70th's, Auslander introduced the notion of representation dimension of an algebra intending to get a measure of the complexity of the category of modules of such algebra. For instance, the representation dimension of an algebra is at most 2 if and only if the algebra is representation-finite. On the other hand, such dimension can be arbitrarily large. It has been conjectured that the representation dimension of a tame algebra is at most 3. We shall, after recalling some general facts on this dimension, discuss two new results involving tame algebras.

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