

Jacobian algebras with periodic module category and exponential growth

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The Jacobian algebra associated to a triangulation of a closed surface S with a collection of marked points M is (weakly) symmetric and tame. We recently show that for these algebras the Auslander—Reiten translate acts 2-periodical on objects and as consequence we have that the Auslander—Reiten quiver of the generalized cluster category $\mathcal{C}_{(S,M)}$ consists only of stable tubes of rank 1 or 2.

In this talk, we show that excluding only the case of a sphere with 4 (or less) punctures, these algebras are of exponential growth.

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