

1077-16-2742

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Semi-invariants and the representation type of Artin algebras. Preliminary report.

I report on the joint work with Calin Chindris, Piotr Dowbor and Ryan Kinser. We address the following questions.

1. Suppose an Artin algebra has the property that in every dimension vector every irreducible component has an open orbit. Is A of finite representation type? 2. Let A be a triangular algebra such that for every irreducible component C of representation spaces of A the ring $SI(C)$ of semiinvariants on C has weight spaces of dimension at most 1. Is A of finite representation type.

We give counterexamples to both statements. (Received September 22, 2011)