

# A characterization of Artin algebras using Nakayama algebras

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## **Abstract**

Throughout the twentieth century, E. Artin developed an important theory about Artinian rings and its goal was to classify Artin algebras. This is one of the most important areas of research in contemporary mathematics; by using Nakayama algebras, researched by Tadasi Nakayama, a partial classification was obtained. We show relevant notions of the representation theory of Artin algebras which will pave the road to a partial characterization of Artin algebras via Nakayama algebras.