

STRATIFYING SYSTEMS OVER TAME HEREDITARY ALGEBRAS

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ABSTRACT. Let K be an algebraically closed field and let $A \cong KQ$ be a tame hereditary algebra. In this work we proved that a stratifying system over A whose elements are regular modules has maximal size $n - 2$, where $n = \text{rank}K_0(A)$. Furthermore, if A is of type $\tilde{A}_{p,q}$, we clasificated the complete stratifying systems with form $(X; E; F; Y)$, where E and F are stratifying systems whose elements are simple regular modules in tubes of rank p and q in $\Gamma(\text{mod}A)$, respectively. This work is a part of my Ph.D. thesis under supervision of Eduardo do Nascimento Marcos.

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