



APRESENTA:

Identities and isomorphisms of finite graded matrix algebras

04/12/2024 às 14h00

Online via link

<https://meet.google.com/qdq-kusm-she>

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UNIVERSIDADE FEDERAL DE CAMPINA GRANDE
CENTRO DE CIÊNCIAS E TECNOLOGIA
UNIDADE ACADÊMICA DE MATEMÁTICA



CICLO DE CONFERÊNCIAS 2024
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Identities and isomorphisms of finite graded matrix algebras

Daniela Martinez Correa[†]

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Abstract. Let \mathbb{F} be a finite field and let G a group such that every finite subgroup of G is cyclic. In this talk, we give the classification of the division grading by cyclic group on matrix algebras over \mathbb{F} . As consequence, we find the classification of the G -grading on these algebras. Moreover, if G is abelian, we show that two matrix algebras over \mathbb{F} are isomorphic as graded algebras if and only if they satisfy the same graded identities.

This is a joint work with D. Diniz (UFCG), D. Gonçalves (UFSCar) and P. Koshlukov (Unicamp).

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