

Gradings and polynomial identities in matrix algebras

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Resumo

The polynomial identities of matrix algebras play an important role in the study of algebraic structures. The following problem, related to matrix algebras, was posed by E. Zelmanov to A. V. Keralev: find all gradings of $M_n(D)$, where D is a division algebra. In this talk, we consider the case where D is the base field F , and moreover, we address the problem of describing the graded polynomial identities for $M_n(F)$.

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