

1035-17-855

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Fine gradings on \mathfrak{e}_6 .

We determine all the fine group gradings on the exceptional Lie algebra \mathfrak{e}_6 , or equivalently, the maximal abelian diagonalizable groups of the automorphism group of \mathfrak{e}_6 .

There are 9 of such gradings. (Received September 17, 2007)