

The TKK Construction of a Cheng-Kac Jordan Superalgebra of Characteristic 3

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Abstract: The classification of simple Lie superalgebras in prime characteristic is far from being known. In this paper a simple Lie superalgebra in characteristic 3, obtained as a Cheng-Kac superalgebra, is studied and its dimension is found.

Key words: Jordan superalgebras, Lie superalgebras, Cheng-Kac superalgebras, Tits-Kantor-Koecher construction.

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