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DIFFERENTIAL ALGEBRAS AND SIMPLE JORDAN SUPERALGEBRAS

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In [1], a new example is constructed of a unital simple special Jordan superalgebra J over the field of reals. It turns out that J is a subsuperalgebra of a Jordan superalgebra of vector type but it cannot be isomorphic to a superalgebra of such a type. Moreover, the superalgebra of fractions of J is isomorphic to a Jordan superalgebra of vector type. In the present article, we find a similar example of a Jordan superalgebra. It is constructed over a field of characteristic 0 in which the equation $t^2 + 1 = 0$ has no solutions.

Key words and phrases: Jordan superalgebra, $(-1, 1)$-superalgebra, superalgebra of vector type, differentially simple algebra, algebra of polynomials, projective module.

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