SEMINÁRIO JUNIOR

Álgebras de Lie e de Jordan e suas Representações

Irreductible Representations of Jordan Superlgebras $JG(n)$

A **dot-bracket superalgebra** $F = (F_0 + F_1, \cdot, \{,\})$ is an associative, supercommutative ϕ-superalgebra $(F, \cdot)$ together with a super-skew-symmetric bilinear product $\{,\}$. With this a **Kantor superalgebra** $J(F)$ is defined via the **Kantor doubling process** that is a Jordan superalgebra if and only if $\{,\}$ is a Jordan superbracket. In particula, when $F = G_n$ is the Grassman superalgebra with odd generators $e_1, e_2, \ldots, e_n$, with $e_ie_j + e_je_i = 0$ and $e_i^2 = 0$, together a bracket (Jordan Superbracket), it is obtained $JG(n) = J(G_n)$ that is a Jordan superalgebra. It is shown that the irreductible representation (Bimodules) have finite dimention and give its table of multiplication for $n = 2, 3, 4$, the only open cases, and some results for any n over a field of characteristic $\neq 2$.

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