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Francesco Toppan* (toppan@cbpf.br), Rua Dr. Xavier Sigaud 150, Urca, Rio de Janeiro, RJ
22290-180, Brazil. *Irreducible representations of the 1D N-Extended Supersymmetry Algebra.*

I review the present status of the classification of the irreducible representations of the algebra of the one-dimensional N-Extended Supersymmetry (the superalgebra of the Supersymmetric Quantum Mechanics) realized by linear derivative operators acting on a finite number of bosonic and fermionic fields. This talk covers the connection with Clifford algebras, the analysis of the fields content of the irreducible representations, their graphical interpretation and the classification of the inequivalent connectivities of the associated graphs. (Received February 14, 2008)