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Q-analogues of Clifford and Weyl algebras - spinor and oscillator representations of quantum enveloping algebras. (English) [Zbl 0701.17008](#)
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Q-analogues of Clifford and Weyl algebras are induced. Using these, the spinor and oscillator representations of quantum enveloping algebras of A_{N-1} , B_N , C_N , D_N and $A_{N-1}^{(1)}$ are constructed and the irreducibility and the unitarity of these representations are discussed.

Reviewer: Li Wanglai

MSC:

- 17B37 Quantum groups (quantized enveloping algebras) and related deformations
- 81R50 Quantum groups and related algebraic methods applied to problems in quantum theory
- 81R05 Finite-dimensional groups and algebras motivated by physics and their representations
- 15A66 Clifford algebras, spinors

Cited in **5** Reviews
Cited in **116** Documents

Keywords:

q-analogues; spinor representation; Clifford algebra; Weyl algebra; oscillator representations; quantum enveloping algebras

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