

Explicit Expression of Seniority Particle Operator and Its Properties in Quasi-spin Theory

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Abstract: The explicit expression of the seniority particle operator and its properties in the quasi-spin theory of nuclear physics is presented in this paper. The seniority particle operator can be used to construct D-pair in the microscopic theory of interacting boson model to avoid the seniority mixing problem.

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Key words: quasi-spin, seniority particle, seniority mixing problem

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