

Matrix Elements of One- and Two-Body Operators in the Unitary Group Approach (I) - Formalism

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Abstract: The tensor algebraic method is used to derive general one- and two-body operator matrix elements within the U_n representations, which are useful in the unitary group approach to the configuration interaction problems of quantum many-body systems.

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Key words: unitary group approach, tensor algebraic method, many-body matrix elements

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