On E0 Transitions in Even-Even Nuclei

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Abstract

We analyze simultaneously the parabolic distribution of the energies of low lying collective states $K^π = 0^+$ [1] and the classification of these states energies within the Interacting Vector Boson Model (IVBM) [2]. The classification of the $0^+$ states energies within (IVBM) is performed with the fixed set of parameters extracted from the fitting of the model energies with the experimental data for $K^π = 0^+$ rotational bands. The calculation of E0 transition probabilities for these two approaches is carried out.

References