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## Some advances in the microscopic foundations of the Interacting Boson Model

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The traditional interpretation of pairs of nucleons coupled to angular momentum 0 and 2 as bosons in the Interacting Boson Model is revisited. In contrast to previous calculations, where extensive use of the Number Operator Approximation (N.O.A.) is made, we show new calculations of spectroscopic intensities of one nucleon transfer reactions and log ft values of single beta decays where this approximation is relaxed. We compare the results obtained with and without using N.O.A. with the experiment and the overall agreement between them is better without using N.O.A..

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