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Title: **E2 and M1 strengths in heavy deformed nuclei**

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Energy levels of the four lowest bands in ^{160,162,164}Dy, B(E2) transition strengths between these levels, and the B(M1) strength distribution of the ground state, all calculated within the framework of pseudo-SU(3) model, are presented [1]. Realistic single-particle energies and quadrupole-quadrupole and pairing interaction strengths fixed from systematics were used in the calculations [2]. The strengths of four rotor-like terms, all small relative to the other terms in the interaction, were adjusted to give an overall best fit to the energy spectra. The procedure yielded consistent parameter sets for the four nuclei.

References

[1] R. F. Casten, J. P. Draayer, K. Heyde, P. Lipas, T. Otsuka, and D. Warner, *Algebraic Approaches to Nuclear Structure: Interacting Boson and Fermion Models* (Harcourt, Brace, and Jovanovich, New York, 1993).

[2] G. Popa, J. G. Hirsch, and J. P. Draayer, Phys. Rev. **C62**, 064313 (2000).

Invited talk.