

## **J distributions of levels for Deformed Nuclei**

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The J-distribution for excited levels in the nucleus is usually calculated by a formula proposed by Bethe. His derivation assumed a spherically symmetric system. A revised formula is obtained for the spin distribution in a deformed nucleus. It is found that the average J at a given energy is raised significantly. The effect of this change on Hauser-Feshbach calculations, level densities derived from resonance counting and isomeric ratio calculations will be discussed.

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