

## Parity splitting in nuclei involving octupole correlations and the alignment of the angular momentum

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### Abstract

A rotational model based on a simultaneous analysis of parity splitting and the alignment of the angular momentum is developed to describe high-spin negative-parity states. A simple formula for the energy of these states is proposed. It is shown that negative-parity states exhibit alignment, provided that the ground-state band is aligned and that the two opposite-parity bands can be considered as a single alternating-parity band. © 2001 MAIK "Nauka/Interperiodica".

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