Proceedings of the 3rd China-Japan-Korea Hardron and Nuclear Physics 2008 Symposium

Signature Inversion in Odd odd Nuclei LIU Min-liang, ZHANG Yu-hu, ZHOU Xiao-hong, GUO Ying-xiang,

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收稿日期 修回日期 网络版发布日期 接受日期

摘要

Signature inversion in odd odd nuclei is investigated by using a proton and a neutron coupling to the coherent state of the core. Two parameters are employed in the Hamiltonian to set the energy scales of rotation, neutron proton coupling and their competition. Typical level staggering is extracted from the calculated level energies. The calculation can approximately reproduce experimental signature inversion. Signature inversion is attributed to the rotational motion and neutron proton residual interaction having reversed signature splitting rules. It is found signature inversion can appear at axially symmetric shape and high K band.

关键词 <u>signature</u> <u>odd odd nuclei</u> <u>neutron</u> <u>proton interaction</u> 分类号

分关写 DOI:

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