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α decay Branching Ratios to Rotational Band of Heavy Even-even and Odd A Nuclei

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摘要 By using a simple barrier penetration approach, we predict the α decay branching ratios to members of ground state rotational band of heavy even-even No isotopes. We also extend our approach to calculate the α decay branching ratios to the rotational band of heavy odd A nuclei. The theoretical branching ratios of α decays are found in good agreement with the available experimental data.

关键词 [\$\alpha\$ decay](#) [branching ratio](#) [heavy nuclei](#)

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