レベル統計の質量依存性のジノキオ模型による解析

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Abstract

The chaotic dynamics in nuclear collective motion is studied in the framework of a schematic shell model (the Ginocchio model) which has only monopole and quadrupole degrees of freedom. The model is shown to reproduce the experimentally observed global trend toward less chaotic motion in heavier nuclei. It might be considered that the nuclear collectivity appears more evident in heavier nuclei. The relation between current approach and the earlier studies with bosonic models is discussed.

References

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