

Semiclassical Approaches to Phenomena in Deformed Nuclei

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Semi-classical approaches based on the equations of motion along with quantisation of action and the periodic orbit theory have often proved to be a powerful tool for appreciating the underlying mechanism of phenomena in deformed nuclei. A brief review based on the application of these techniques to particle-rotor models will be presented. New results on excitation of wobbling modes in tri-axial super-deformed nuclei will also be presented.