

Nuclear Shapes in the IVBM

H. G. Ganev

Joint Institute for Nuclear Research, 141980 Dubna, Russia

Nuclear shapes are investigated within the framework of the two-fluid Interacting Vector Boson Model (IVBM). The classical images corresponding to its different dynamical symmetry limits are obtained by means of the coherent state method using a variation before and after angular momentum projection. The projection turns out to be crucial for obtaining triaxial shapes without breaking the exact dynamical symmetries.