

Low spin identical bands in adjacent even-even nuclei of A=120-200 region

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The study of identical bands in neighboring even-even nuclei of $A = 120-200$ mass region by the influence of moment of inertia is carried out. A correlation to identify such nuclei are based on the concept of $N_p N_n$ scheme (where N_p number of valence proton and N_n number of valence neutron) and F-spin multiplets. The F-spin multiplets are found to be constant for the ground and gamma bands whereas vary for the beta band. The F-spin multiplets are also helpful to understand the structure of nuclei.