

Abstract

The proxy-SU(3) model is systematically used to obtain the ground state deformation and its evolution with neutron number for several isotopic chains ($Z = 28-34$). These outputs are compared with the results of covariant density functional theory (CDFT) as well as the finite range droplet macroscopic model (FRDM). Even Z results show good agreement with the CDFT results, while the odd Z results show good agreement with FRDM model results.