

Shape coexistence in the doubly-odd nuclides: Antimony(Sb) and Iodine(I)

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We present shape coexistence in the odd-odd Sb ($Z=51$) and I ($Z=53$) nuclides; spherical and deformed shapes. With a specific focus on the intruder proton (p) and neutron (n) $h_{11/2}$ orbitals, we show the deformed rotational bands in Sb and I with $N = 63$ to 67 as discussing systematic features emerged in the neutron-shell space of $50 < N < 82$. In addition, we discuss the chiral-like double bands associated with the $p[h_{11/2}]n[h_{11/2}]$ configuration in ^{120}I .

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