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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) h11/2 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[h11/2]n[h11/2] configuration in 120I.

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