

Neutron single-particle structure above N=50 towards ^{78}Ni

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We propose to perform the spectroscopy of N=51 isotones of ^{83}Ge and ^{81}Zn . The goal is to use the selectivity of neutron knockout from ^{84}Ge and ^{82}Zn to characterize the evolution of the $\nu(s_{1/2}-d_{5/2})$ energy splitting and to identify for the first time (2p-1h) intruder state ($\nu(g_{9/2})-1(sd)+2$) possible signature of shape coexistence above N=50 close to ^{78}Ni . Such a study is uniquely possible at the RIBF due to the exoticity of the beams involved and high-resolution gamma spectroscopy is crucial due to the proximity in energy of the populated states in odd-even products

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