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Effect of Tensor Force on Proton Shell Evolution in the ”SouthWest” of 132Sn: Low-Lying -emitting Isomers in 123,125Ag

The beta-delayed gamma-ray spectroscopy of 123,125Pd are investigated at the Radioactive Isotope Beam Factory of the RIKEN Nishina Center. Neutron-rich nuclei 123,125Pd are produced by in-flight fission of the 238U beam at 345 MeV/nucleon. The 1/2– low-lying beta-emitting isomers in 123,125Ag and gamma transitions feeding into the isomers are constructed for the first time and the results are compared to large-scale shell-model calculations using the state-of-the-art EPQQM effective interaction. The effects of the monopole interaction on the proton shell evolution in the “southwest” of 132Sn are discussed in terms of Vmu interaction.

Summary

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