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Shell-model study of nuclear isomers in Sn and Pb region

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The neutron-rich nuclei in the vicinity of 132 Sn and 208 Pb regions exhibit an abundance of nuclear isomers. The existence of the different isomers alludes to the dominance of proton or neutron excitations for low-lying states. Thus the observed structure and transition probabilities can be easily described in terms of the seniority scheme for the low-lying structure near Sn and Pb region. In this meeting we will present our recent results of nuclear isomers for these two regions using large-scale shell model.

Primary author: Ms BHOY, Bharti (Department of Physics, Indian Institute of Technology Roorkee)

Co-author: Prof. SRIVASTAVA, Praveen C. (Department of Physics, Indian Institute of Technology Roor-

kee)

Presenter: Ms BHOY, Bharti (Department of Physics, Indian Institute of Technology Roorkee)

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