

Decay properties of heavy and super-heavy nuclei

The present work is devoted to the description of quasi-neutron structure of odd isotones in chains with $N=149$, $N=151$, $N=153$. The minimization of potential surface with respect to collective parameters was carried out in order to define ground states and describe low lying quasi-neutron states in the frame of two center shell model. The blocking effect was taken into account as well, transition probabilities and corresponding lifetimes for low lying quasi-neutron states were estimated.

Primary author: Ms MARKOVA, Maria (Moscow State University, Faculty of physics)

Co-authors: Mr ANTONENKO, Nikolai (JINR BLTP); Dr TRETYAKOVA, Tatiana (SINP MSU); Dr SHNEIDMAN, Timur (Joint Institute for Nuclear Research)

Presenter: Ms MARKOVA, Maria (Moscow State University, Faculty of physics)

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