

Looking at the shape transition at N=60 by safe Coulomb excitation of Sr isotopes

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The IS451 experiment aims to investigate the shape transition at N=60 in the n-rich Sr isotopes by safe Coulomb excitation at the Miniball setup using REX. In 2007, we have investigated the N=58 nearly spherical Sr96 using a molecular extraction within an UCx primary target. A second run in 2011 focussed on the highly deformed isotopes 98Sr using at that time in-trap and in-EBIS beta decay to produce an intense secondary beam. The results of both run will be presented. New B(E2), spectroscopic quadrupole moment and new level will be shown. The shape transition will be described using electromagnetic transition and theoretical model based on the mean-field formalism.

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