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Exploring the collectivity around the N = 82 shell closure via relativistic Coulomb excitation of the Z = 50 130,136Sn isotopes

Friday, 12 April 2019 11:00 (15 minutes)

We propose to study excited states in the isotopes 130,136Sn the direct neighbors of 132Sn by gamma-ray spectroscopy following relativistic Coulomb excitation. The experiment aims to investigate the evolution of collectivity and nuclear structure around and the magic-shell closure at N = 82 for tin isotopes (Z = 50) via the determination of the reduced transition probabilities, in particular B(E2; 0+ - 2+). The fragments of interest are produced by impinging a 345 A MeV 238U beam onto a 9Be target and the following identification with the BigRIPS spectrometer. The identification of beam-like and target-like particles after the secondary target is performed by the ZeroDegree spectrometer. Gamma-rays from the deexcitation of beam and target-like particles are detected with the MINIBALL array.

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