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Lifetime Measurements in neutron-rich Pt Isotopes

The present work reports the status of lifetime measurements and in-beam spectroscopy of neutron-rich Pt isotopes. The experiment aims to study the shape evolution in this region. These nuclei are expected to be more spherical near shell closure, but there is a lack of data to support this theoretical prediction. The population of the states of interest has been carried out by the multi-nucleon transfer (MNT) reaction technique with a beam of ^{136}Xe impinging on a ^{198}Pt target, with a 1133 MeV energy. The target and degrader have been placed in the plunger device in reversed configuration. The PRISMA separator has been used to identify the beam-like fragments, and AGATA to detect γ rays of their binary partners.

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