Isomeric Decays in the Neutron-rich Ag Isotopes

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Two experiments, focused on the nuclear structure below the N=82 shell gap [1–4] and the nuclear shapes of the neutron-rich A$\approx$ 110 nuclei [5], have been carried out during the RISING Stopped beam campaign at GSI. The exotic neutron-rich nuclei were produced in relativistic fission of ^{238}U and fragmentation of ^{136}Xe. The nuclei were analyzed with the GSI FRagment Separator and subsequently implanted into a passive stopper. The isomer-delayed γ-rays were detected by 105 HPGe detectors.

The present work extends the above isomeric studies towards the neutron-rich silver isotopes, where new microsecond isomers have been observed. The ^{123,125}Ag isomers, previously observed in [6], are confirmed. Extended level schemes will be presented and discussed.

References

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