

^{213}Tl

In the 2010 paper “Discovery and investigation of heavy neutron-rich isotopes with time-resolved Schottky spectrometry in the element range from thallium to actinium”, Chen et al. described the discovery of ^{213}Tl (2010Ch19). A beryllium target was bombarded with a 670 MeV/u ^{238}U beam from the GSI heavy-ion synchrotron SIS and projectile fragments were separated with the fragment separator FRS. The mass and half-life of ^{213}Tl was measured with time-resolved Schottky Mass Spectrometry in the storage-cooler ring ESR. “In [the figure] a typical frequency spectrum is shown including the new ^{213}Tl isotope, known isotopes for which mass values have been measured for the first time in this experiment and those suitable for providing reference masses.”

Adapted from reference (2013Fr04)

2010Ch19 L. Chen, W. R. Plass, H. Geissel, R. Knobel *et al.*, Phys. Lett. B **691**, 234 (2010).

2013Fr04 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 365 (2013).

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