

## <sup>229</sup>Am

Devajara et al. reported the decay of <sup>229</sup>Am in the 2015 paper entitled “Observation of new neutron-deficient isotopes with  $Z \leq 92$  in multinucleon transfer reactions” (2015De22). The UNiversal Linear ACcelerator (UNILAC) at GSI was used to bombard layers of <sup>248</sup>Cm oxide with a 270 MeV <sup>48</sup>Ca beam. Target-like deep inelastic reaction products were separated and identified with the velocity filter SHIP by correlating implanted residues with subsequent  $\alpha$ -decays. “We attributed [the] decay chain to the new isotope <sup>233</sup>Bk. The observed half-lives of <sup>233</sup>Bk and its daughter nucleus <sup>229</sup>Am, which is also a new isotope, are well in agreement with WKB calculations using the measured  $\alpha$  energies.”

Adapted from reference (2016Th03)

2015De22 H. M. Devaraja, S. Heinz, O. Beliuskina, V. Comas *et al.*, Phys. Lett. B **748**, 199 (2015).

2016Th03 M. Thoennessen, Int. J. Mod. Phys. E **25**, 1630004 (2016).

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