^{115}Ba

In the paper "Decay studies of the neutron-deficient isotopes $^{114-118}$Ba" Janas et al. reported the first observation of ^{115}Ba in 1997 (1997Ja12). A 4.9 MeV/u ^{58}Ni beam was accelerated by the linear accelerator UNILAC at GSI and bombarded enriched ^{58}Ni and ^{60}Ni targets. ^{115}Ba was identified by measuring the energy and time of β-delayed protons following on-line mass separation. "The least-square fit yielded $T_{1/2} = 0.45 \pm 0.05$ s for the decay half-life of ^{115}Ba and a lower limit of 15% for $b_{\beta p}$."

Adapted from reference (2010Sh20)

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