^{116}Ba

In the paper "Decay studies of the neutron-deficient isotopes $^{114-118}$Ba" Janas et al. reported the first observation of ^{116}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. ^{116}Ba was identified by measuring the energy and time of β-delayed protons and X-rays following on-line mass separation. "The time characteristics of the Cs KX-rays intensity, analyzed under the assumption of a single decay component, yielded $T_{1/2} = 1.3 \pm 0.2$ s for the half-life of ^{116}Ba."

Adapted from reference (2010Sh20)

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