^{242}U

Haustein et al. reported the observation of ^{242}U in the 1979 paper "Identification and decay of ^{242}U and ^{242}Np" (1979Ha26). ^{244}Pu targets were irradiated with 30−160 MeV neutrons produced at the Brookhaven Medium Energy Intense Neutron (MEIN) facility by bombarding a water-cooled copper beam stop with 200 MeV protons from the Alternating Gradient Synchrotron. Gamma- and beta-rays were measured with Ge(Li) and plastic detectors, respectively, following chemical separation. "By combining the data from several of the most intense runs we have by least square analyses $T_{1/2}$=16.8±0.5 min for ^{242}U and $T_{1/2}$=2.2±0.2 min for ^{242}Np"

Adapted from reference (2013Fr03)

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