

U(p,F) 1996Me09

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev		NDS 113, 1315 (2012)	1-Aug-2011

Beam: $E_p=50$ MeV provided by K=130 MeV cyclotron at the University of Jyvaskyla. IGISOL was used to produce and separate isobarically pure beams of primary fission products. The mass separated nuclei were implanted into a collection tape positioned inside a 4π neutron long counter. A thin plastic scintillator (NE110) was used to detect β particles, γ -rays were detected with a Ge detector and a neutron long counter, consisting of 42 ^3He ionization chamber tubes, which were arranged in two concentric rings in a polyethylene block surrounding the implantation point, was used for neutron detection. The half life of ^{110}Nb was determined from both β -gated and neutron singles multiscaling curves by fitting the total growth-in and decay periods of time spectra. Delayed neutron emission probability was determined from the absolute intensities of neutrons, β particles and βn coincidences.

 ^{110}Nb Levels

E(level)	$T_{1/2}$	Comments
0	170 ms 2	$\% \beta^- n = 40.8$ $\% \beta^- n$: from intensities of neutrons, β particles and βn coincidences in 1996Me09 . $T_{1/2}$: from both β -gated and neutron-singles multiscaling curves by fitting the total growth-in and decay periods of time spectra (1996Me09).