Be(^{238}U,F) 2011Ni01

History

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

Beam: E(^{238}U)=345 MeV/nucleon produced by the cascade operation of the RBIF complex of accelerators at RIKEN. Target: 550 mg/cm^2 Be.

Identification of ^{110}Zr was made on the basis of magnetic rigidity, time-of-flight and energy loss. The separated nuclei were implanted in a nine-layer double-sided silicon-strip detector (DSSD). Correlations were recorded between the implanted nuclei and associated β decays. The half-life of ^{110}Zr isotope was measured from the correlated ion-β decay curve and the maximum likelihood analysis technique.

^{110}Zr Levels

E(level)	J^π	$T_{1/2}$	Comments
0	0^+	37 ms *+17−9*	$T_{1/2}$: from 2011Ni01 using the analysis of the (ion)β-correlated decay curve.