^{208}Pb(^{40}Ar,2n):1.54 s 2011Ve03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 112, 1833 (2011)	1-Jan-2011

Additional information 1.

Measurement of half-life, %SF and %α of ^{246}Fm decay.

^{246}Fm nuclide produced in the ^{208}Pb(^{40}Ar,2n) reaction at 186.4 MeV, beam provided by UNILAC at GSI. Measured spectra of α particles, and conversion electrons using silicon detectors. The γ rays and x-rays were detected using an HPGe Clover detector.

Search for K-isomers resulted in no state observed with $T_{1/2}>0.6$ μs.

^{246}Fm Levels

E(level)	J^π	$T_{1/2}$	Comments
0	0^+	1.54 s *4*	%α=93.2 *6*; %SF=6.8 *6*; %ε+%β^+<1.3 (2011Ve03) $T_{1/2}$: From time distribution between implanted nuclei and α particles with Eα=8243 keV *5* (2011Ve03). Other value: Eα=8240 keV *20* (2010An08).