^{244}Es α decay (37 s) 1973Es02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, E. Browne	NDS 109, 2439 (2008)	31-Jul-2008

Parent: ^{244}Es: E=0; $T_{1/2}$=37 s *4*; Q(α)=7940 *SY*; %α decay=4.5 *25*

^{244}Es-Q(α): 7940 *100* (syst,2003Au03).

^{244}Es-$T_{1/2}$: From 1973Es02. Other: 38 s *11* (2002Sh02).

^{244}Es-%α decay: %α=4 +3-2 (evaluation by 2003Ak04). Alpha and electron capture branchings were determined by 1973Es02 from alpha counts from ^{244}Es and from ^{244}Cf decays, assuming that ^{244}Cf decays 100% by α.

1973Es02: Measured Eα, Iα.

Other: 2002Sh02: Measured electron-capture delayed fission of ^{244}Es studied by 2002Sh02; %ε(delayed fission)=0.012 *4*.

^{240}Bk Levels

E(level)	Comments
0	
2.4×10^2 *10*	E(level): calculated from the observed Eα=7570 *20* from ^{244}Es and Q(α)(^{244}Es)=7940 *100* (syst,2003Au03).

α radiations

Eα	E(level)	Comments
7570 *20*	240	Eα: 7580 (2002Sh02). Iα: HF≈2.2, if Iα≈100 and r_0(^{240}Bk)≈1.50.

γ(^{240}Bk)

E$_\gamma$	E$_i$(level)	E$_f$
(≈330)	2.4×10^2	0

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Legend

γ Decay (Uncertain)

Decay Scheme