

${}^{244}\text{Bk}$ α decay (4.35 h) 1966Ah02

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

Parent: ${}^{244}\text{Bk}$: $E=0$; $J^\pi=(4^-)$; $T_{1/2}=4.35$ h 15; $Q(\alpha)=6779$ 4; $\% \alpha$ decay=0.006 3
 1966Ah02: Measured $E\alpha$, $I\alpha$.
 Other: 1956Ch77.

 ${}^{240}\text{Am}$ Levels

E(level)	J^π †
0	(3 ⁻)
43	(4 ⁻)

† From 'Adopted Levels'.

 α radiations

$E\alpha$ †	E(level)	$I\alpha$ †#	HF‡	Comments
6626 4	43	≈ 50	≈ 2500	$E\alpha$: 6624 4.
6665 3	0	≈ 50	≈ 3800	$E\alpha$: 6666 4, 6670.0 15 (1956Ch77).

† As recommended in evaluation by 1991Ry01 from original measurements of 1966Ah02. 1991Ry01 suggest 40% uncertainty on intensities.

‡ $r_0({}^{240}\text{Am})=1.508$ was used in calculation.

For absolute intensity per 100 decays, multiply by 0.00006 3.

 $\gamma({}^{240}\text{Am})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	$I_{\gamma+ce}$
(43)	43	(4 ⁻)	0	(3 ⁻)	≈ 50

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Legend

Decay Scheme-----> γ Decay (Uncertain)