

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	A. M. Mattera, S. Zhu, A. B. Hayes, E. A. Mccutchan		NDS 172, 543 (2021)	1-Jan-2021

$Q(\beta^-)=4.8\times 10^2$ 5; $S(n)=5.29\times 10^3$ 5; $S(p)=4.13\times 10^3$ 5; $Q(\alpha)=6790$ SY 2017Wa10
 $\Delta Q(\alpha)=50$ (2017Wa10).
 $S(2n)=12070$ syst 110; $S(2p)=1.023\text{E}+4$ 5 (2017Wa10).

 ^{252}Es LevelsCross Reference (XREF) FlagsA ^{256}Md α decay

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	(5 ⁻)	471.7 d 19	A	$\% \varepsilon=22$ 2; $\% \alpha=78$ 2 $\% \varepsilon, \% \alpha$: from 1973Fi06 based on the measured ratio of α and 785.1 γ (0.7 photon per ε decay) intensities. $T_{1/2}(\beta^-)>20$ y (1956Ha80). J^π : β^- decay to (3 ⁺) with $\log ft=8.3$ 4; no β^- and ε branches to $K^\pi=0^+$ g.s. bands in ^{252}Cf and in ^{252}Fm . Possible $K^\pi=5^-, \pi 3/2^- [521] \otimes \nu 7/2^+ [613]$ configuration for ^{252}Es g.s. is consistent with its β decay and with the α decay from ^{256}Md . $T_{1/2}$: from 1977Ah03. Other: ≈ 140 d (1956Ha80), 350 d 50 (1973Fi06), 471 d 5 (1975AhZW).
35 11			A	
436 9			A	
476 8	(1 ⁻)		A	J^π : favored α from ^{256}Md g.s, which was suggested to be $J=1^-, K=0$ with configuration $\pi 7/2^- [514] \otimes \nu 7/2^+ [613]$ (1993Mo18).
542 9			A	