

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin, C. D. Nesaraja		NDS 186, 261 (2022)	31-Dec-2021

$Q(\beta^-)=-3600$ SY; $S(n)=7160$ SY; $S(p)=1810$ SY; $Q(\alpha)=8160$ 20 [2021Wa16](#)
 $\Delta Q(\beta^-)=480$, $\Delta S(n)=350$, $\Delta S(p)=310$ (syst,[2021Wa16](#)).
 $S(2n)=15570$ 450, $S(2p)=5440$ 300, $Q(\epsilon p)=1530$ 310 (syst,[2021Wa16](#)).

Assignment: [1994La25](#): $^{209}\text{Bi}(230\text{-MeV } ^{40}\text{Ar},3n)^{246}\text{Md}(\alpha \text{ decay})$, $^{208}\text{Pb}(230\text{-MeV } ^{37}\text{Cl},3n)$, p ^{242}Cf and ^{238}Bk .
[1996Ni09](#): $^{209}\text{Bi}(191.2\text{-},197.2\text{-},204.8\text{-MeV } ^{40}\text{Ar},3n)$.
[2000Sh10](#): $^{233}\text{U}(87\text{-MeV } ^{14}\text{N},5n)$, p ^{242}Cf .

 ^{242}Es LevelsCross Reference (XREF) Flags

- A** ^{246}Md α decay (0.9 s)
B ^{246}Md α decay (4.4 s)

E(level)	$T_{1/2}$	XREF	Comments
0.0	17.8 s 16	AB	$\% \alpha=57$ 3; $\% \epsilon+\% \beta^+=43$ 3 $\% \epsilon$: From 2010An08 . $T_{1/2}$: From 2010An08 . Others: 11 s 3 (2000Sh10), 16 s +6-4 (1996Ni09). Probability of ϵ -delayed fission=1.3% +12-7 (2010An08), 0.6% 2 (2000Sh10).
218 50		A	
252.0?		B	E(level): Or 279 depending on the order of the 252-279 cascade.
531.0		B	

 $\gamma(^{242}\text{Es})$

$E_i(\text{level})$	E_γ	E_f
252.0?	252.0 [†]	0.0
531.0	279.0 [†]	252.0?

[†] The relative order of the 252 and 279 γ 's has not been established.

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