Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 189,1 (2023)	14-Feb-2023

Q(β^-)=−1571.4 *26*; S(n)=6971 *14*; S(p)=3927.0 *14*; Q(α)=6454.5 *14* 2021Wa16
S(2n)=13018 *5*, S(2p)=9939.2 *19* (2021Wa16).

^{245}Bk Levels

Cross Reference (XREF) Flags

A ^{245}Cf ε decay
B ^{249}Es α decay

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0[†]	(3/2$^-$)	4.96 d *3*	AB	%α=0.12 *1*; %ε=99.88 *1* (1976Ah03) $T_{1/2}$: From weighted average of 4.95 d *10* (1951Hu39), 4.98 d *2* (1956Ma32), and 4.90 d *3* (1976Ah03). J^π: Nilsson assignment for the g.s. of the 97th proton.
0.0+x[‡]	7/2$^+$		B	J^π: Favored α decay from the 7/2$^+$ g.s in ^{249}Es.
61+x[‡] *13*	(9/2$^+$)		B	J^π: From band member and hindrance factor for α decay from ^{249}Es.
1560 *calc*		2 ns *1*		%SF=100 Only SF decay was observed. $T_{1/2}(\gamma)/T_{1/2}$(SF) was calculated by 1972We09 as 5.6×10^{-8}. E(level): Calculated by 1972We09. $T_{1/2}$: From 1971Re11 (^{243}Am(^{4}He,2n), Eα=26 MeV), 1972Ga42 (^{243}Am(^{4}He,2n), Eα=24 MeV).

[†] Band(A): 3/2[521] rotational band.
[‡] Band(B): 7/2[633] rotational band.

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Band(B): 7/2[633] rotational band

$(9/2^+)$	**61+x**

Band(A): 3/2[521] rotational band

$(3/2^-)$	**0.0**	**$7/2^+$**	**0.0+x**

$^{245}_{97}Bk_{148}$