

Adopted Levels

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

$Q(\beta^-) = -1640$  SY;  $S(n) = 6300$  SY;  $S(p) = 3240$  SY;  $Q(\alpha) = 6910$  SY [2021Wa16](#)

$\Delta Q(\beta^-) = 140$ ,  $\Delta S(n) = 210$ ,  $\Delta S(p) = 140$ ,  $\Delta Q(\alpha) = 150$  (syst, [2021Wa16](#)).

$S(2n) = 14060$  200,  $S(2p) = 8340$  140 (syst, [2021Wa16](#)).

Assignment: [1979Wi03](#).

$^{235}\text{U}(^{11}\text{B}, 4n)$  E=55-65 MeV, chem, excit;

$^{238}\text{U}(^{10}\text{B}, 6n)$  E=67 MeV;

$^{232}\text{Th}(^{14}\text{N}, 4n)$  E=77 MeV;

$^{232}\text{Th}(^{15}\text{N}, 5n)$  E=76-92 MeV, excit

For references on theory, refer to the NSR file at the Web site given in the abstract.

 $^{242}\text{Bk}$  LevelsCross Reference (XREF) Flags

**A**  $^{246}\text{Es}$   $\alpha$  decay

E(level)	$T_{1/2}$	XREF	Comments
0.0	7.0 min 13	<b>A</b>	$\% \epsilon + \% \beta^+ = 99.5$ 5; $\% \alpha = 0.5$ 5 $\% \epsilon + \% \beta^+$ : Only the $\epsilon + \beta^+$ decay mode has been observed. No $\alpha$ or SF activities were identified: $\% \alpha < 1$ , $\% \text{SF} < 0.03$ ( <a href="#">1979Wi03</a> ). $T_{1/2}$ : measured by <a href="#">1979Wi03</a> .
$\approx 150$ 0+x	9.5 ns 20	<b>A</b>	$\% \text{SF} = 100$ Only SF decay has been observed. $T_{1/2}$ : measured by <a href="#">1972Wo07</a> . Assignment: $^{241}\text{Am}(\alpha, 3n)$ excit ( <a href="#">1972Wo07</a> ). $\% \text{SF} = 100$
0+y	600 ns 100		Only SF decay has been observed. $T_{1/2}$ : measured by <a href="#">1972Wo07</a> . Other measurement: <a href="#">1972Ga42</a> . Assignment: $^{241}\text{Am}(\alpha, 3n)$ excit ( <a href="#">1972Wo07</a> ).