Adopted **Levels**

History

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

$Q(\beta^-)=-2.33\times10^3$ *syst*; $S(n)=6.7\times10^3$ *syst*; $S(p)=2.77\times10^3$ *syst*; $Q(\alpha)=7.20\times10^3$ *syst*   2012Wa38
Note: Current evaluation has used the following Q record \$ -2370 syst   6690 syst   2820 syst   7060 syst   2003Au03.
$\Delta Q(\beta^-)=250$, $\Delta S(n)=280$, $\Delta S(p)=\Delta Q(\alpha)=180$ (syst,2003Au03).
Assignment: $^{232}\text{Th}(^{14}\text{N},6n)$ excitation functions (1980Ga07), $^{241}\text{Am}(^3\text{He},4n)$ (1983Ga05).
Probability of delayed fission=1.0×10^{-5} (1980Ga07); 1.3×10^{-5} $+18-7$ (1983Ga05).

^{240}Bk Levels

Cross Reference (XREF) Flags

    A ^{244}Es α decay (37 s)

E(level)	$T_{1/2}$	XREF	Comments
0	4.8 min *8*	A	$\%\varepsilon+\%\beta^+$=?; $\%\varepsilon$SF=0.0020 *13* $T_{1/2}$: from 1983Ga05 other: 5 min *2* (1980Ga07). $\%\varepsilon\approx100$, as adopted by 1980Ga07, but systematics (1972El21,2003Au02) suggest 10% for α decay. β^+ or ε decays were not observed. 2001Mo07 calculated $T_{1/2}$ for α-decay as 37.5 h.
2.4×10^2 *10*		A	E(level): calculated from the observed Eα=7570 *20* from ^{244}Es α-decay (1973Es02) and $Q(\alpha)(^{244}\text{Es})$=7940 *100* (syst,2003Au03).