
Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 112,2497 (2011)	1-Jun-2011

$Q(\beta^-)=3714$ 11; $S(n)=6382$ 14; $S(p)=8846$ 12; $Q(\alpha)=-1919$ 13 [2012Wa38](#)

Note: Current evaluation has used the following Q record \$ 3705 60 6479 syst 8649 syst -1828 syst.

$Q(\beta^-)$: From [2007Ha57](#), from total-absorption γ spectroscopy using a BGO detector. From systematics, [2009AuZZ](#) list $Q(\beta^-)=3736$ 298; and [2003Au03](#) list $Q(\beta^-)=3740$ 300, also from systematics.

$S(n), S(p), Q(\alpha)$: from [2009AuZZ](#). The uncertainties associated with these estimates from systematics are as follows: for $S(n)$, 359; for $S(p)$, 357; and, for $Q(\alpha)$, 318. [2003Au03](#) list $S(n)=6480$ 360, $S(p)=8650$ 360 and $Q(\alpha)=-1830$ 320, all also from systematics.

Additional information 1.

The only data currently available on ^{161}Eu are the $T_{1/2}$ from ^{161}Eu β^- decay ([1986Ma12,1988GrZY](#)) and the presence, somewhere in the level scheme, of a 263.7γ , observed following the β^- decay of ^{161}Sm ([1998Ic02](#)).

^{161}Eu Levels

E(level)	$T_{1/2}$	Comments
0	26 s 3	$\% \beta^- = 100$ J^π : From systematics, 2003Au02 list $J^\pi=5/2^+$. $T_{1/2}$: weighted average of 27 s 3 (1986Ma12) and 24 s 4 (1988GrZY and 1990An31 by same authors).