

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. Browne	NDS 93,846 (2001)	1-May-2001

$Q(\beta^-) = -4.76 \times 10^3$  *syst*;  $S(n) = 6.45 \times 10^3$  *syst*;  $S(p) = 3.61 \times 10^3$  *syst*;  $Q(\alpha) = 8.94 \times 10^3$  5 [2012Wa38](#)  
Note: Current evaluation has used the following Q record -3500 SY6530 SY3570 SY8940 50 [1995Au04](#).  
<sup>223</sup>U activity was produced by <sup>208</sup>Pb(<sup>20</sup>Ne,5n), E=120 MeV ([1991An10](#), [1991An13](#)); by <sup>197</sup>Au(<sup>27</sup>Al,n) ([1994Ye08](#)), and separated using the electrostatic recoil separator VASSILISSA. <sup>223</sup>U was identified through the  $\alpha$ -decay chain by  $\alpha$ - $\alpha$  time correlation and genetic position analysis. The  $\alpha$ -particle groups from the decay of the daughter nucleus <sup>219</sup>Th, and of the granddaughter nucleus <sup>215</sup>Ra were observed.

<sup>223</sup>U Levels

E(level)	T <sub>1/2</sub>	Comments
0.0	18 $\mu$ s +10-5	$\% \alpha = 100$ ; $\% \epsilon + \% \beta^+ = 0.2$ T <sub>1/2</sub> : from <a href="#">1991An10</a> , <a href="#">1991An13</a> , <a href="#">1994Ye08</a> . $\% \epsilon + \% \beta^+$ : not seen. Branching is from theory ( <a href="#">1997Mo25</a> ).