Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 108,681 (2007)	1-Jun-2006

$Q(\beta^-)$=2.05×10^3 *4*; S(n)=5.50×10^3 *4*; S(p)=9.4×10^3 *syst*; $Q(\alpha)$=2.42×10^3 *syst*   2012Wa38
Note: Current evaluation has used the following Q record 2130   SY5610   syst   2003Au03.
$\Delta Q(\beta^-)$=630 syst, $\Delta S(n)$=680 syst (2003Au03).
Assignment: ^{238}U(1 GeV p,X) ms (1992Bo44). Identified β from daughter ^{234}Ac. Others: 1992MeZV, 1993MeZW, 1990BeZB,
   1990MeZQ.
Theory/Calculations:
1995Ru10: Relativistic Mean Field theory.
1986Da03: Interacting Boson Model, α clustering.
1982Du16: Cranked hfb model.
1982Le19: Potential energy minima.

^{234}Ra Levels

E(level)	J$^\pi$	T$_{1/2}$	Comments
0.0	0$^+$	30 s *10*	%β^-=100 No fission fragments were detected (1992MeZV). An upper limit of 1×10^{-4}% for β-delayed SF decay branch was given by 1992MeZV. From $Q(\alpha)$ systematics of 1985Wa02, $Q(\alpha)$(^{234}Ra)<3 MeV. Therefore, ^{234}Ra is expected to decay predominantly by β to ^{234}Ac. T$_{1/2}$: β measurement of 1992Bo44. Others: 1993MeZW, 1992MeZV.