Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni	NDS 115, 135 (2014)	1-Nov-2013

Q(β^-)=6832 *5*; S(n)=5529 *4*; S(p)=15555 *4*; Q(α)=−8161 *5* 2012Wa38
S(2n)=9524 *4*; S(2p)=28702 syst *298*; Q(β^-n)=1936 *5* (2012Wa38).
First identification of ^{88}Se by 1970De08 and 1970Kr05 formed in neutron fission of ^{235}U and detected through delayed neutron activity. Earlier conference report (1969WaZS) may also have identified delayed neutron activity from ^{88}Se.
Later decay measurements: 1971To13 (also 1970ToZT), 1977Pf01, 1978Ze08, 1980Ze04 (also 1978ZeZZ), 1982Re10, 1982Re08, 1982Li09, 2012Qu01.
Yield and cross section measurements: 2000Lh02, 2002So13.
A J=(2$^+$) level at 886-keV was proposed in ^{252}Cf by assigning a 886γ to ^{88}Se. A subsequent measurement in 2013Rz02 provides evidence for the 886γ to be assigned to ^{87}Se and thus is not adopted here. See ^{252}Cf decay dataset for additional details.

^{88}Se Levels

Cross Reference (XREF) Flags

A ^{252}Cf SF decay

E(level)	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	0$^+$	1.53 s *6*	A	%β^-=100; %β^-n=0.99 *10* (1993Ru01) T$_{1/2}$: from 1971To13 (from neutron counting, included both statistical and systematic errors). Others: 0.65 s *+18−14* (2012Qu01), 1.51 s *4* from γ counting (1982Re08, systematic errors not included); 1.6 s *5* (1978Ze08); 1.4 s *3* (1970Kr05), 1.3 s *3* (1970De08). %β^-n: 1993Ru01 and 1984Ma39 evaluations recommended 0.99 *10* and 0.94 *16*, respectively, based on 1971To13 result. Measurements: %β^-n=0.75 *6* (1971To13), 0.15 *9* (1970Kr05), ≤1 (1970De08). The values from 1971To13 and 1970Kr05 were adjusted in 1993Ru01 evaluation to 0.99 *10* and 0.23 *15*, respectively, using improved values of %β^-n for ^{87}Br and ^{88}Br decays. Other: 0.67 *30* from 2002Pf04 compilation (source references not cited). Additional information 1.