

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huang Xiaolong, J. K. Tuli	NDS 106,159 (2005)	3 5808 3 1.492e+425-10622 168	2003Au03.

Q(β^-)=3576 4; S(n)=5808 4; S(p)=14623 15; Q(α)=-10532 6

Note: Current evaluation has used the following Q record 3576

[2012Wa38](#)3 5808 3 1.492e+425-10622 168 [2003Au03.](#) **^{67}Ni Levels****Cross Reference (XREF) Flags**

A	^{67}Co β^- decay (0.425 s)
B	$^{70}\text{Zn}(\alpha, ^7\text{Be})$
C	$^{70}\text{Zn}(^{14}\text{C}, ^{17}\text{O})$
D	$^{208}\text{Pb}(^{64}\text{Ni}, \text{X})$

E(level)	J $^\pi$	T $_{1/2}$	XREF	Comments
0	(1/2) $^-$	21 s I	ABCD	% β^- =100 μ =+0.601 5 (2000Ri14) μ : from NMR on oriented nuclei. T $_{1/2}$: from ^{67}Ni β^- decay (1983Ru06). J $^\pi$: Allowed β^- to ^{67}Cu , 3/2 $-$ (gs). From shell model configuration=(v p $_{1/2}$) $^{-1}$. XREF: B(720)C(770).
694.1	(5/2) $^-$	150 ps 4	ABCD	J $^\pi$: from log ft 4.2 for β^- decay from (7/2 $^-$) level; γ to (1/2) $^-$. Configuration=(v f $_{5/2}$) $^{-1}$ (1998Gr14). T $_{1/2}$: From 2003Ma50 . μ =0.56 3
1007.2	(9/2) $^+$	13.3 μ s 2	AB D	XREF: B(1020). μ : from g=0.125 6 (2002Ge16,2004Ge11); J $^\pi$: from assigned multipolarity and expected configuration=(v g $_{9/2}$) (1998Gr14). T $_{1/2}$: from 1998Gr14 . Others: >0.3 μ s (1994Pa20,1994Pa32), >0.6 μ s (1997Is13).
1140 30			C	
1710 22			B	
1970 40			C	
2155 (5/2) $^-$ [†]			A	
2390			C	
3680 50			C	

[†] Suggested by [1999We07](#) based on estimated log ft values. **$\gamma(^{67}\text{Ni})$**

E _i (level)	J _i $^\pi$	E _γ [†]	I _γ [†]	E _f	J _f $^\pi$	Mult.	Comments
694.1	(5/2) $^-$	694.1 I	100	0	(1/2) $^-$	(E2)	B(E2) \downarrow =1.46 4(2003Ma50) Mult.: expected E2 from ΔJ and configuration (1998Gr14). B(M2) \downarrow =0.047 (1998Gr14)
1007.2	(9/2) $^+$	313.1 I	100	694.1 (5/2) $^-$	(M2)		Mult.: from comparison of measured T $_{1/2}$ with Weisskopf estimate (1998Gr14). Similar isomeric transition in ^{65}Fe .
2155 (5/2) $^-$	2155 [‡]	100	0	(1/2) $^-$			

[†] From $^{208}\text{Pb}(^{64}\text{Ni}, \text{x})$, except as noted.[‡] From ^{67}Co β^- decay.

Adopted Levels, Gammas**Level Scheme**

Intensities: Relative photon branching from each level

