^{82}Se(^{13}C,3nγ) 2006ReZZ

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)	15-Sep-2012

E(^{13}C)=50 MeV; thin C coating on both sides of target to reduce sublimation of Se during bombardment; YRASTBALL spectrometer (10 four-element Clover detectors; 6 At 90°, 4 At 140°, all but one Compton-suppressed), 2 planar Ge detectors At 90°; measured Eγ, prompt and delayed $\gamma\gamma$ coin.

^{92}Zr Levels

E(level)†	J$^\pi$‡	Comments
0	0^+	
934	2^+	
1495	4^+	
2957	6^+	
3309	8^+	
4297	10^+	
4948	(12^+)	
6047	(14^+)	
7448	(16^+)	
8042?	(18^+)	E(level): an alternative value of 9131 is possible because the order of 594γ and 1683γ was not established; however, the 1683γ appears to Be the weaker of the two.
9725	(20^+)	

† From Eγ.
‡ Authors′ suggested values; compatible with adopted values.

γ(^{92}Zr)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
352	3309	8^+	2957	6^+
561	1495	4^+	934	2^+
594†	8042?	(18^+)	7448	(16^+)
651	4948	(12^+)	4297	10^+
934	934	2^+	0	0^+
988	4297	10^+	3309	8^+
1099	6047	(14^+)	4948	(12^+)
1401	7448	(16^+)	6047	(14^+)
1462	2957	6^+	1495	4^+
1683	9725	(20^+)	8042?	(18^+)

† Placement of transition in the level scheme is uncertain.

Legend

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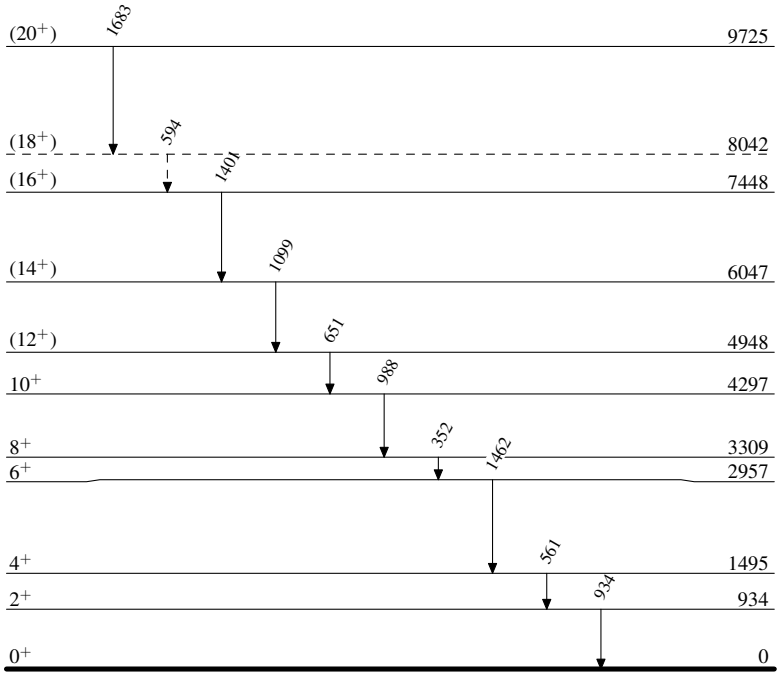
Level Scheme

γ Decay (Uncertain)



$^{92}_{40}Zr_{52}$