^{81}Zn β^- decay 2004Ve14,2007Ve08,2007Ib01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 109, 2257 (2008)	15-Aug-2008

Parent: ^{81}Zn: E=0.0; J^π=(5/2$^+$); $T_{1/2}$=0.32 s *5*; Q(β^-)=11860 *SY*; %β^- decay=100.0

^{81}Zn-Q(β^-): 11860 *360* (syst, 2003Au03).

^{81}Zn-%β^- decay: %β^-=100; %β^-n=7.5 *30* (1991Kr15).

2007Ve08, 2007Ib01, 2007VeZZ, 2006VeZZ, 2004Ve14: ^{81}Zn source from n-induced fission In≈2000° C UC_x target At the PARRNe ISOL facility; γ rays detected by two coaxial HPGe detectors of the EUROGAM phase I type; β rays were detected by plastic scintillators. measured Eγ, $\gamma\gamma$ coin, $\beta\gamma$ coin, parent $T_{1/2}$.

^{81}Ga Levels

E(level)†	J^π‡
0	(5/2$^-$)
351.1	(3/2$^-$)
802.8	(3/2$^-$)
1621.6?	

† From Eγ.

‡ From Adopted Levels. order of γ cascade was based on intensity considerations.

γ(^{81}Ga)

E_γ†	E_i(level)	J_i^π	E_f	J_f^π
351.1	351.1	(3/2$^-$)	0	(5/2$^-$)
451.7	802.8	(3/2$^-$)	351.1	(3/2$^-$)
1621.6	1621.6?		0	(5/2$^-$)

† From 2004Ve14; uncertainties unstated by authors.

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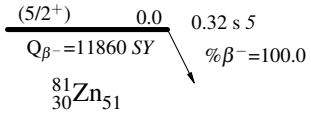
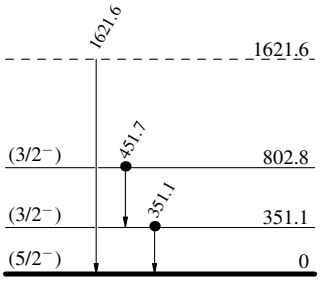
Decay Scheme





$^{81}_{31}Ga_{50}$

Legend

● Coincidence