Ni(^{86}Kr,Xγ),^{58}Ni(^{70}Zn,Xγ) 1998Gr14,2002So03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

2002So03: ^{58}Ni(^{70}Zn,Xγ), E(^{70}Zn)=65.9 MeV/nucleon. Fragments separated by the LISE3 spectrometer and identified by ΔE and total E. Measured Eγ, Iγ, and $T_{1/2}$ using two coaxial Ge detectors.

1998Gr14: Ni(^{86}Kr,Xγ), E(^{86}Kr)=60.3 MeV/nucleon. Isotopes separated by Alpha and LISE3 spectrometers and identified by TOF-ΔE-E. Measured Eγ, Iγ, and $T_{1/2}$ using four HPGe detectors and one LEPS.

^{68}Ni Levels

E(level)[†]	J$^\pi$[†]	$T_{1/2}$	Comments
0.0	0^+		
1770.0	0^+	270 ns *5*	$T_{1/2}$: from 511γ(t) in 2002So03. Other: 0.34 μs *3* from 511γ(t) in 1998Gr14.
2034.08	2^+		
2849.1	5^-	860 μs *50*	$T_{1/2}$: from 814γ(t) in 1998Gr14.

[†] From the Adopted Levels.

γ(^{68}Ni)

E$_\gamma$[†]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.[‡]
814	2849.1	5^-	2034.08	2^+	E3
2033	2034.08	2^+	0.0	0^+	E2

[†] From 1998Gr14.
[‡] From the Adopted Gammas.

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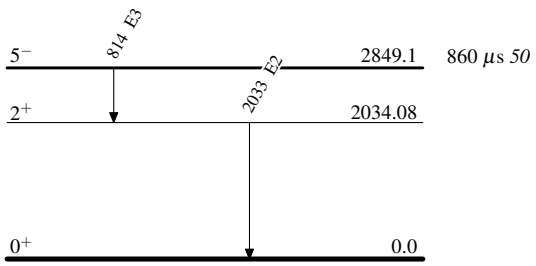
Level Scheme



$^{68}_{28}Ni_{40}$