Ni(^{86}Kr,Xγ) 1998Gr14,2003StZX

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 111,1 (2010)	1-May-2009

^{72}Cu produced from Ni(^{86}Kr,Xγ), E=60.3 MeV/nucleon, measured Eγ, $T_{1/2}$.
α: Additional information 1.

^{72}Cu Levels

E(level)	Jπ‡	$T_{1/2}$†
0.0	(2$^+$)	
138	(3$^-$)	17.6 ns *7*
220	(4$^-$)	0.09 ns *3*
271	(6$^-$)	1.76 μs *3*

† From γ(t) in 2003StZX.
‡ As given by 2003StZX. In the Adopted Levels, however, the g.s. is not assigned a parity value.

γ(^{72}Cu)

Eγ†	Ei(level)	J_i^π	E_f	J_f^π	Mult.‡	α	$I_{(\gamma+ce)}$	Comments
51	271	(6$^-$)	220	(4$^-$)	E2	7.74	100	ce(K)/(γ+ce)=0.756 *6*; ce(L)/(γ+ce)=0.1140 *20*; ce(M)/(γ+ce)=0.0156 *3*; ce(N)/(γ+ce)=0.000272 *5*
82	220	(4$^-$)	138	(3$^-$)	M1	0.0918	100	ce(K)/(γ+ce)=0.0752 *10*; ce(L)/(γ+ce)=0.00781 *11*; ce(M)/(γ+ce)=0.001098 *16*; ce(N)/(γ+ce)=3.24×10^{-5} *5*
138	138	(3$^-$)	0.0	(2$^+$)	E1	0.0207	100	ce(K)/(γ+ce)=0.0182 *3*; ce(L)/(γ+ce)=0.00181 *3*; ce(M)/(γ+ce)=0.000253 *4*; ce(N)/(γ+ce)=7.39×10^{-6} *11*

† From 2003StZX.
‡ From RUL arguments (2003StZX).

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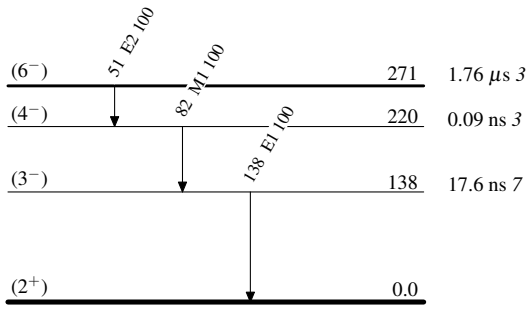
Level Scheme



$^{72}_{29}Cu_{43}$