^{60}Mn IT decay (1.77 s) 1993ScZS

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 114, 1849 (2013)	31-Dec-2012

Parent: ^{60}Mn: E=271.21 *24*; $J^\pi=4^+$; $T_{1/2}$=1.77 s *2*; %IT decay=11.5 *8*
^{60}Mn-%IT decay: from %IT/%β^-=0.13 *1* (from 1985Ru05, 1988Bo06).
Additional information 1.
^{86}Kr, E=11.6 MeV/u on tungsten, measured ce, γ, γ(t).
Other: 1978No03.
J; revised J^π suggested by 2006Li15.

^{60}Mn Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	1^+	0.28 s *2*	
271.9 *1*	4^+	1.77 s *2*	$T_{1/2}$: from 1988Bo06.

γ(^{60}Mn)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	$\alpha^\dagger$	$I_{(\gamma+ce)}^\ddagger$	Comments
271.9 *1*	271.9	4^+	0.0	1^+	M3	0.0520	100	α(K)exp=0.055 *6*; α(L+...)exp=0.006 *1* (1993ScZS) ce(K)/(γ+ce)=0.0442 *6*; ce(L)/(γ+ce)=0.00464 *7*; ce(M)/(γ+ce)=0.000631 *9*; ce(N+)/(γ+ce)=2.85×10^{-5} *4* ce(N)/(γ+ce)=2.85×10^{-5} *4* Additional information 2.

† Additional information 3.
‡ For absolute intensity per 100 decays, multiply by 0.115 *8*.

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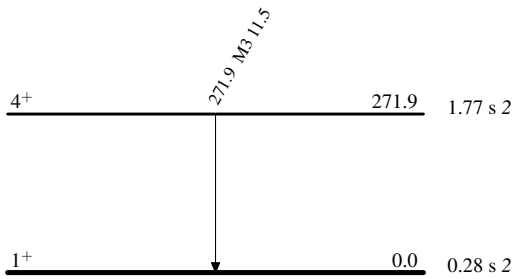
Decay Scheme

%IT=11.5 *8*



$^{60}_{25}Mn_{35}$