^{99}Ag IT decay 1981Hu03,1982Ku15

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 145, 25 (2017)	1-Jul-2017

Parent: ^{99}Ag: E=506.2 *4*; J^π=(1/2$^-$); $T_{1/2}$=10.5 s *5*; %IT decay=100.0

^{99}Ag Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(9/2)$^+$		
342.60 *20*	(7/2$^+$)		
506.2 *4*	(1/2$^-$)	10.5 s *5*	$T_{1/2}$: from 1982Ku15. Other: 15 s *2* (1978Hu11).

$\gamma(^{99}Ag)$

Iγ normalization: From Ti(342.6γ)=100.

E_γ †	I_γ #	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α ‡	$I_{(\gamma+ce)}$ @	Comments
163.6 *3*	37 *3*	506.2	(1/2$^-$)	342.60	(7/2$^+$)	E3	1.529 *25*	100	α(K)= 1.042; α(L)= 0.403; α(M)= 0.0802; α(N+..)=0.01460 ce(K)/(γ+ce)=0.410 *5*; ce(L)/(γ+ce)=0.158 *3*; ce(M)/(γ+ce)=0.0316 *6* ce(N)/(γ+ce)=0.00504 *10*; ce(O)/(γ+ce)=6.00×10^{-5} *11* α(K)=1.036 *17*; α(L)=0.399 *7*; α(M)=0.0800 *14* α(N)=0.01276 *22*; α(O)=0.0001518 *24* Mult.: α(K)exp=0.7 *4*, K/L=2.6 *3* (1988BaZS); α(K)exp=1.5 *3*; K/L=2.5 *3* (1981Hu03); α(K)exp=3.8 *20* (1980Ka05); α(exp)=1.75 *22* from I(γ+ce) balance. I_γ: Iγ=39 from I(γ+ce)=100. Other: 30 *2* (1982Ku15). This value is too small since it requires α=2.4 *2*, δ=0.18 *3* to fulfill intensity balance. δ: <0.002 if B(M4)(W.u.)<30 (RUL). δ=0.08+4-8 if Iγ=37 *3*.
342.6 *2*	100	342.60	(7/2$^+$)	0.0	(9/2)$^+$	M1+E2	0.0178 *24*	100	ce(K)/(γ+ce)=0.0151 *18*; ce(L)/(γ+ce)=0.0020 *4*; ce(M)/(γ+ce)=0.00037 *8* ce(N)/(γ+ce)=6.4×10^{-5} *12*; ce(O)/(γ+ce)=2.68×10^{-6} *21* α(K)=0.0153 *19*; α(L)=0.0020 *4*; α(M)=0.00038 *8* α(N)=6.5×10^{-5} *12*; α(O)=2.72×10^{-6} *21* Mult.: α(K)exp=0.020 *6* (1988BaZS). Other:<0.016 (1981Hu03).

† From 1978Hu11.
‡ Additional information 1.

Continued on next page (footnotes at end of table)

^{99}Ag IT decay 1981Hu03,1982Ku15 (continued)

γ(^{99}Ag) (continued)

For absolute intensity per 100 decays, multiply by 0.98.
@ Absolute intensity per 100 decays.