^{120}Ag IT decay (0.32 s) 1971Fo22,1973Fr19

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	K. Kitao, Y. Tendow and A. Hashizume	NDS 96, 241 (2002)	1-Dec-2001

Parent: ^{120}Ag: E=203.0 *10*; $J^\pi=6^{(-)}$; $T_{1/2}$=0.32 s *4*; %IT decay≈37.0

^{120}Ag-%IT decay: from 1971Fo22. The evaluators regard value as uncertain since Iγ from 1973Fr19 for ^{120}Ag IT decay plus β^- decays do not agree with those from 1971Fo22. No data are given by 1973Fr19.

1971Fo22: ^{235}U(n,F) E=th, on-line mass separation; semi γ, ce, γγ.

1973Fr19: ^{238}U(α,F) E=43 MeV, on-line mass separation; semi G.

See also ^{120}Ag β^- decay (0.32 s).

^{120}Ag Levels

E(level)†	J^π†	$T_{1/2}$
0.0	$3^{(+)}$	1.23 s *4*
203.0 *10*	$6^{(-)}$	0.32 s *4*

† From Adopted Levels.

γ(^{120}Ag)

E_γ	I_γ†	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α#	$I_{(\gamma+ce)}$‡	Comments
203 *1*	100	203.0	$6^{(-)}$	0.0	$3^{(+)}$	E3	0.605 *18*	161 *5*	ce(K)/(γ+ce)=0.275; ce(L)/(γ+ce)=0.0826; ce(M)/(γ+ce)=0.0163; ce(N)/(γ+ce)=0.00301 Mult.: from α and ce ratios. Data not given (1971Fo22).

† For absolute intensity per 100 decays, multiply by ≈0.23.

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Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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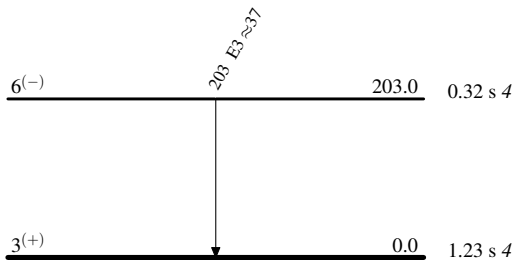
Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

%IT≈37.0



$^{120}_{47}Ag_{73}$