^{77}Br IT decay (4.28 min) 1972De54,1961Go39

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Ninel Nica	NDS 113, 1115 (2012)	30-Mar-2012

Parent: ^{77}Br: E=105.86 *8*; $J^\pi=9/2^+$; $T_{1/2}$=4.28 min *10*; %IT decay=100.0
Others: 1971Do01, 1959Go67, 1955Th01, 1939Va02.

^{77}Br Levels

E(level)	J^π[†]	$T_{1/2}$[†]	Comments
0.0	$3/2^-$	57.04 h *12*	
105.86 *8*	$9/2^+$	4.28 min *10*	$T_{1/2}$: from γ(t) (1961Go39). Others: 1972De54, 1971Do01, 1959Go67, 1955Th01.

[†] From Adopted Levels.

$\gamma(^{77}Br)$

Iγ normalization: From I(γ+ce)(106γ)=100.

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α[‡]	Comments
105.87 *10*	100	105.86	$9/2^+$	0.0	$3/2^-$	E3	6.30	α(K)=4.85 *7*; α(L)=1.236 *19*; α(M)=0.198 *3*; α(N)=0.01486 *22* Mult.: from K/L and α(K)exp in ^{77}Kr ε decay. E_γ: from 1972De54.

[†] For absolute intensity per 100 decays, multiply by 0.1370 *19*.
[‡] 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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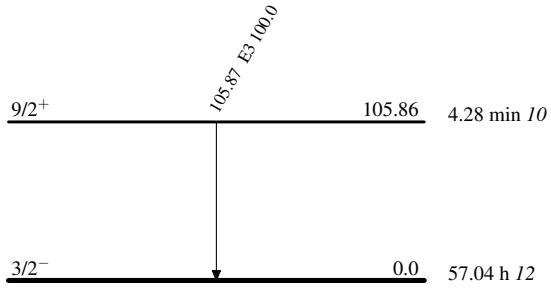
Decay Scheme

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

%IT=100.0



$^{77}_{35}Br_{42}$