^{82}Br IT decay 1965An01,1965Em02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, E. Browne	NDS 157, 260 (2019)	1-Mar-2019

Parent: ^{82}Br: E=45.9492 *10*; $J^\pi=2^-$; $T_{1/2}$=6.13 min *5*; %IT decay=97.6 *3*

^{82}Br-%IT decay: from $\%\beta^-$=2.4 deduced from $\Sigma I\beta$(6.13 min)/$\Sigma I\beta$(35.282 h) (1965Em02); no uncertainty given, 3% assumed .

^{82}Br Levels

E(level)	J^π[†]	$T_{1/2}$[†]
0	5^-	35.282 h *7*
45.9492 *10*	2^-	6.13 min *5*

[†] From Adopted Levels.

$\gamma(^{82}Br)$

E_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α[‡]	$I_{(\gamma+ce)}$[#]	Comments
45.949 *1*	45.9492	2^-	0	5^-	M3	400	100	α(exp)=382 *75*; α(K)exp=251 ce(K)/(γ+ce)=0.718 *8*; ce(L)/(γ+ce)=0.236 *4*; ce(M)/(γ+ce)=0.0397 *8* ce(N)/(γ+ce)=0.00324 *7* α(K)=288 *4*; α(L)=94.6 *14*; α(M)=15.91 *23* α(N)=1.297 *19* E_γ: 46 keV *2* from 1965Em02. α(K)exp from I(K x ray)/Iγ if ω(K)=0.618 (value of α(K)exp of 1965An01 corrected by the evaluators for the improved value of ω(K)). α(exp): from absolute Iγ compared to the total 6.13-min activity. The latter was determined from the activity of daughter ^{82}Br (35.282 h). Mult.: from α(exp), α(K)exp.

[†] From adopted gammas since energy determined in IT decay is very uncertain.

[‡] Additional information 1.

[#] For absolute intensity per 100 decays, multiply by 0.976 *3*.

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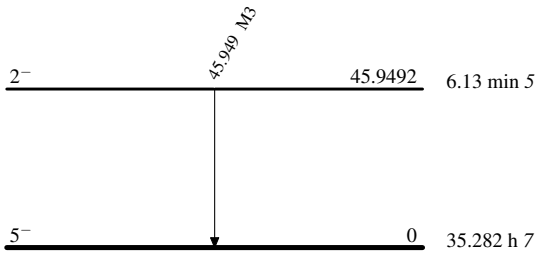
Decay Scheme

%IT=97.6 *3*



$^{82}_{35}Br_{47}$