^{182}Ta IT decay (283 ms)   1968Cl06

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	Balraj Singh	NDS 130, 21 (2015)	15-Jul-2015

Parent: ^{182}Ta: E=16.263; J^{π}=5$^+$; $T_{1/2}$=283 ms 3; %IT decay=100.0

^{182}Ta Levels

E(level)	$J^{\pi \dagger}$	$T_{1/2}$	Comments
0.0	3$^-$		
16.273 4	5$^+$	283 ms 3	$T_{1/2}$: from timing of Ta L x rays (1968Cl06). Other: 333 ms (1950Go60).

† From Adopted Levels.

$\gamma(^{182}$Ta$)$

E_{γ}	$I_{\gamma}{}^{\dagger}$	E_i(level)	J^{π}_i	E_f	J^{π}_f	Mult.	$\alpha^{\ddagger}$	$I_{(\gamma+ce)}{}^{\dagger}$	Comments
16.273 4	0.00232 CA	16.273	5$^+$	0.0	3$^-$	(M2)	4.30×10^4	100	ce(L)/(γ+ce)=0.746 8; ce(M)/(γ+ce)=0.198 4; ce(N+)/(γ+ce)=0.0557 11 ce(N)/(γ+ce)=0.0482 10; ce(O)/(γ+ce)=0.00717 15; ce(P)/(γ+ce)=0.000356 7 Mult.: M2 consistent with L x-ray subshell ratios, but E1, E2, or E3 cannot be ruled out. E_{γ}: from Adopted Gammas. Other: ≈15 (1968Cl06).

† Absolute intensity per 100 decays.

‡ 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.

^{182}Ta IT decay (283 ms)   1968Cl06

Decay Scheme

Intensities: I$_{(\gamma+ce)}$ per 100 parent decays
%IT=100.0

16.273 (M2) 102

5^{+} ——————————————————— 16.273   283 ms *3*

3^{-} ——————————————————— 0.0

$^{182}_{73}$Ta$_{109}$