

^{37}P β^- decay (2.31 s) 1986Du07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	John Cameron, Jun Chen and Balraj Singh, Ninel Nica		NDS 113, 365 (2012)	15-Jan-2012

Parent: ^{37}P : $E=0$; $J^\pi=(1/2^+)$; $T_{1/2}=2.31$ s 13; $Q(\beta^-)=7901$ 38; $\% \beta^-$ decay=100.0

^{37}P - $T_{1/2}$: From 1986Du07. Other: 2.3 s 2 (1986Du11).

^{37}P - $Q(\beta^-)$: From 2011AuZZ. Other: 7900 40 (2003Au03).

1986Du07 (also 1986Du11): ^{37}P produced by $\text{Al}(^{40}\text{Ar},\text{X})$ $E=60$ MeV/nucleon. Fragments separated by LISE spectrometer At GANIL. Measured E_γ , I_γ , $\beta\gamma$ coincidences.

 ^{37}S Levels

E(level)	J^π^\dagger	$T_{1/2}$	Comments
0	$7/2^-$	5.05 min 2	$T_{1/2}$: from Adopted Levels.
646.2 3	$3/2^-$		
1397.4 5	$(3/2)^+$		

† From Adopted Levels.

 $\gamma(^{37}\text{S})$

The decay scheme is incomplete, thus cannot be normalized to obtain $I_\gamma/100$ decays of the parent E, I_γ \$ From 1986Du07.

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
646.2 3	100 4	646.2	$3/2^-$	0	$7/2^-$	Additional information 2.
751.2 3	7.2 6	1397.4	$(3/2)^+$	646.2	$3/2^-$	Additional information 3.
^x 1582.9 4	74 3					Additional information 1.
^x 2100.8 4	6.1 8					
^x 2254.1 4	8.2 10					

^x γ ray not placed in level scheme.

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Decay Scheme

Intensities: Relative I_γ

Legend

