

Adopted Levels, Gammas 1993Ti07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, D. R. Tilley, H. R. Weller and C. M. Cheves		NP 564 1 (1993)	31-Dec-1992

Q(β^-)=8010 5; S(n)=4250 4; S(p)=22553 22; Q(α)=-13809 4 [2012Wa38](#)
 Note: Current evaluation has used the following Q record 8010 5 4250 4 22562 22-13807. 15 [1997Au04](#).

 ^{16}C LevelsCross Reference (XREF) FlagsA $^{14}\text{C}(t,p)$

E(level)	J $^\pi$	T $_{1/2}$	XREF	Comments
0.0	0 $^+$	0.747 s 8	A	% β^- =100; % β^- n=99.0 3 T=2 T $_{1/2}$: From 1976Al02 ; Other: 0.719 s 27 (1991Re02).
1766 10	2 $^+$		A	
3027 12	(0 $^+$)		A	
3986 7	2		A	
4088 7	3 $^{(+)}$		A	
4142 7	4 $^+$		A	
6109 15	(2 $^+$,3 $^-$,4 $^+$)	≤ 25 keV	A	

 $\gamma(^{16}\text{C})$

E $_i$ (level)	J $_i^\pi$	E $_\gamma$	I $_\gamma$	E $_f$	J $_f^\pi$	Mult.	δ^\dagger	Comments
1766	2 $^+$	1766 10	100	0.0	0 $^+$			
3986	2	2220 12	100	1766	2 $^+$	[D+Q]	-0.18 15	δ : from 1977Ba59 .
4088	3 $^{(+)}$	2322 12	100	1766	2 $^+$	[M1+E2]	-0.10 9	δ : from 1977Ba59 .
4142	4 $^+$	2376 12	100	1766	2 $^+$			

† The signature has been changed, where necessary, from that given in [1993Ti07](#) in order to conform to the convention used in the nuclear data sheets.

Adopted Levels, Gammas 1993Ti07Level Scheme

Intensities: Relative photon branching from each level

