

Cf($^{18}\text{O},\text{xny}$) 2010Ta10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 122, 377 (2014)	1-Sep-2014

E=153 MeV. Target consisted of 63% ^{249}Cf , 13% ^{250}Cf , and 24% ^{251}Cf .

 ^{248}Cf Levels

E(level)	J^π	Comments
0	0^+	
41.5 [†]	2^+ [†]	Additional information 1.
137.8 [†]	4^+ [†]	Additional information 2.
287.4 1	6^+ [‡]	
488.0 2	8^+ [‡]	
737.3 5	10^+ [‡]	

[†] E is a rounded-off value from Adopted Levels. J is from Adopted Levels. The transition deexciting the level was not observed.

[‡] From the authors based on their assignment of the level As a member of the g.s. band.

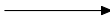


 $\gamma(^{248}\text{Cf})$

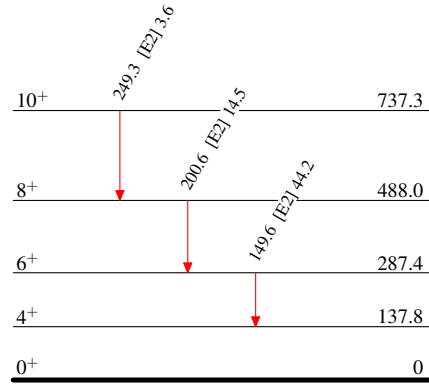
E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	a^\dagger
149.6 1	9.4 5	287.4	6^+	137.8	4^+	[E2]	3.70 6
200.6 1	6.8 6	488.0	8^+	287.4	6^+	[E2]	1.129 16
249.3 5	2.4 13	737.3	10^+	488.0	8^+	[E2]	0.507 8

[†] Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ -ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

Cf($^{18}\text{O},\text{xn}\gamma$) 2010Ta10**Level Scheme**Intensities: Relative $I_{(\gamma+ce)}$

Legend

-  $I_{\gamma} < 2\% \times I_{\gamma}^{\text{max}}$
-  $I_{\gamma} < 10\% \times I_{\gamma}^{\text{max}}$
-  $I_{\gamma} > 10\% \times I_{\gamma}^{\text{max}}$

 $^{248}_{98}\text{Cf}_{150}$