

$^{232}\text{Th}(^{37}\text{Cl},\text{F}\gamma)$ 1997Sm09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 93, 33 (2001)	11-May-2001

1997Sm09: E=172-208 MeV. Measured $E\gamma$, $\gamma\gamma$ using EUROGAM II array.

 ^{130}Xe Levels

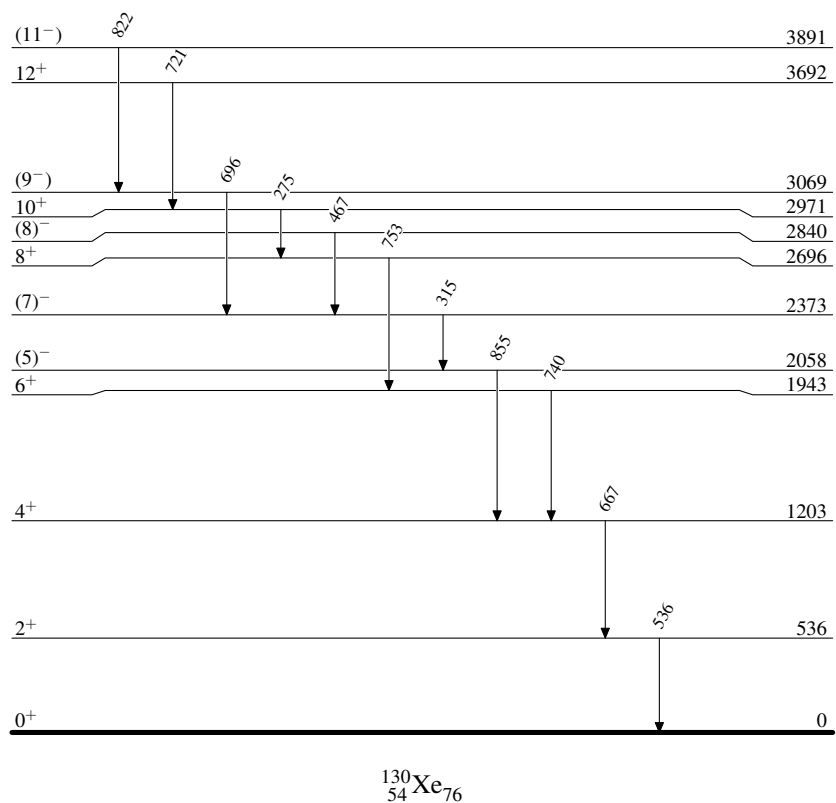
E(level)	J^π [†]	Comments
0 [‡]	0 ⁺	
536 [‡]	2 ⁺	
1203 [‡]	4 ⁺	
1943 [‡]	6 ⁺	
2058	(5) ⁻	
2373	(7) ⁻	
2696 [‡]	8 ⁺	
2840	(8) ⁻	
2971 [‡]	10 ⁺	
3069	(9 ⁻)	J^π : 10 ⁺ in 1997Sm09 which requires $\Delta J=3$ transition to (7) ⁻ , but 696 γ seems to be $\Delta J=2$ in ($\alpha,4n\gamma$).
3692 [‡]	12 ⁺	
3891	(11 ⁻)	J^π : 12 ⁺ in 1997Sm09.

[†] From 1997Sm09.

[‡] Band(A): yrast band.

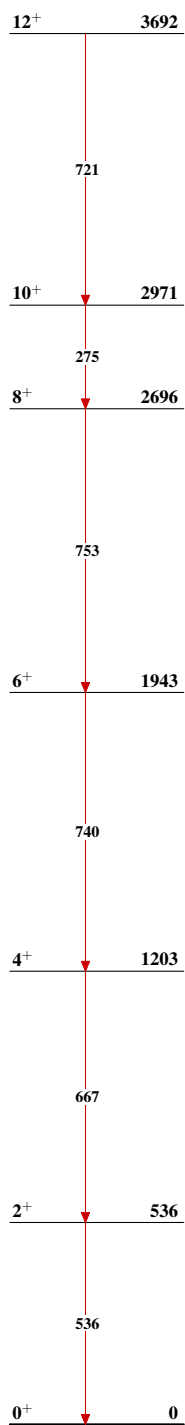
 $\gamma(^{130}\text{Xe})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
275	2971	10 ⁺	2696	8 ⁺	667	1203	4 ⁺	536	2 ⁺	753	2696	8 ⁺	1943	6 ⁺
315	2373	(7) ⁻	2058	(5) ⁻	696	3069	(9 ⁻)	2373	(7) ⁻	822	3891	(11 ⁻)	3069	(9 ⁻)
467	2840	(8) ⁻	2373	(7) ⁻	721	3692	12 ⁺	2971	10 ⁺	855	2058	(5) ⁻	1203	4 ⁺
536	536	2 ⁺	0	0 ⁺	740	1943	6 ⁺	1203	4 ⁺					

$^{232}\text{Th}(^{37}\text{Cl},\text{F}\gamma)$ 1997Sm09Level Scheme

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Band(A): Yrast band

 $^{130}_{54}\text{Xe}_{76}$