

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, I. Mitropolsky, A. Rodionov		NDS 107, 2715 (2006)	17-Jul-2022

$Q(\beta^-) = -9.5 \times 10^3$ SY; $S(n) = 1.24 \times 10^4$ SY; $S(p) = 4.6 \times 10^2$ SY; $Q(\alpha) = 2.35 \times 10^3$ SY 2021Wa16

 ^{131}Pm LevelsCross Reference (XREF) Flags

A (HI,xn γ)

E(level)	J^π [‡]	$T_{1/2}$	XREF	Comments
0.0 [†]	(11/2 ⁻)	6.3 s 8	A	$\% \epsilon + \% \beta^+ = 100$ J^π : From systematics of neighboring odd-A g.s. and decay scheme of ^{131}Pm (1999Ga41). $T_{1/2}$: From 1999Ga41.
273.0 [†]	10 (15/2 ⁻)		A	
680.0 [†]	15 (19/2 ⁻)		A	
1218.0 [†]	18 (23/2 ⁻)		A	
1874.0 [†]	20 (27/2 ⁻)		A	
2634.0 [†]	23 (31/2 ⁻)		A	
3486.0 [†]	25 (35/2 ⁻)		A	
4422 [†]	3 (39/2 ⁻)			
5438? [†]	(43/2 ⁻)		A	
6537? [†]	(47/2 ⁻)		A	

[†] Band(A): 11/2⁻ band.

[‡] From systematics of neighboring Pm isotope bands, except as noted.

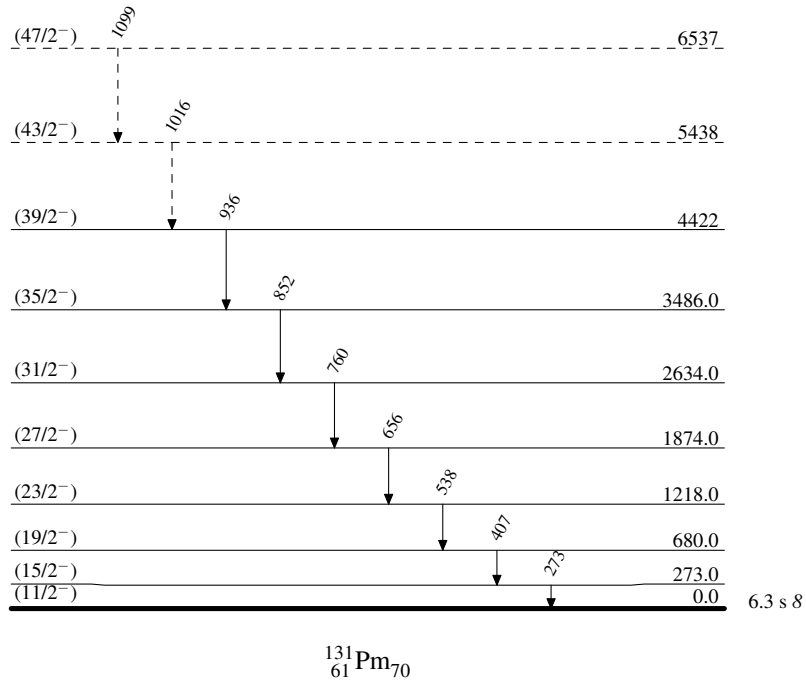
 $\gamma(^{131}\text{Pm})$

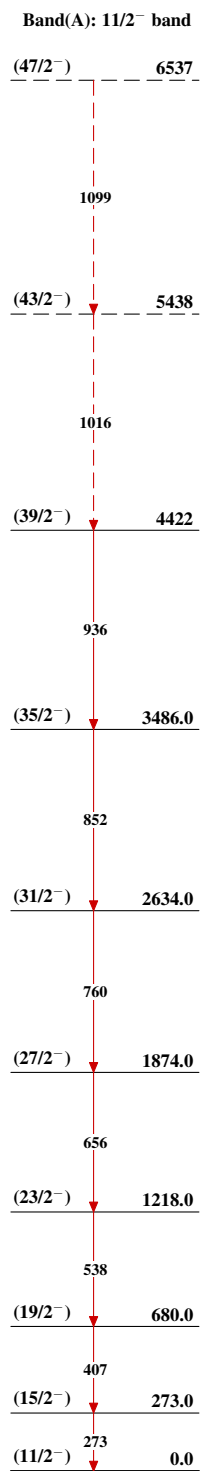
$E_i(\text{level})$	J_i^π	E_γ	E_f	J_f^π
273.0	(15/2 ⁻)	273	0.0	(11/2 ⁻)
680.0	(19/2 ⁻)	407	273.0	(15/2 ⁻)
1218.0	(23/2 ⁻)	538	680.0	(19/2 ⁻)
1874.0	(27/2 ⁻)	656	1218.0	(23/2 ⁻)
2634.0	(31/2 ⁻)	760	1874.0	(27/2 ⁻)
3486.0	(35/2 ⁻)	852	2634.0	(31/2 ⁻)
4422	(39/2 ⁻)	936	3486.0	(35/2 ⁻)
5438?	(43/2 ⁻)	1016 [†]	4422	(39/2 ⁻)
6537?	(47/2 ⁻)	1099 [†]	5438?	(43/2 ⁻)

[†] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme-----► γ Decay (Uncertain)

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