

$^{238}\text{U}(\alpha, \text{F}\gamma)$ 2007St19

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

E=30 MeV. Measured γ , lifetimes, $\gamma\gamma$, γ (fission fragments) coin using the Gammasphere array spectrometer for γ rays and the chico (highly-segmented 4π heavy-ion detector) array for fission fragments.

 ^{117}Pd Levels

E(level) [†]	J ^π	T _{1/2}	Comments
203.2 [‡] 3	11/2 ⁻	19.1 ms 7	E(level), T _{1/2} : from 'Adopted Levels' for ^{117}Pd in ENSDF.
641.2 [‡] 10	(15/2 ⁻)		
1259.0 [‡] 15	(19/2 ⁻)		
2026.7 [‡] 18	(23/2 ⁻)		
2890.6 [‡] 20	(27/2 ⁻)		
3052.6? 23			
3220.6?# 25			
3499?# 3			
3738.6 [‡] 23	(31/2 ⁻)		
3793.6 23			
3842.6 23			
3886?# 3			

[†] From E γ 's, assuming $\Delta(E\gamma)=1$ keV for each γ ray.

[‡] Band(A): 11/2⁻ band.

Band(B): γ cascade.

 $\gamma(^{117}\text{Pd})$

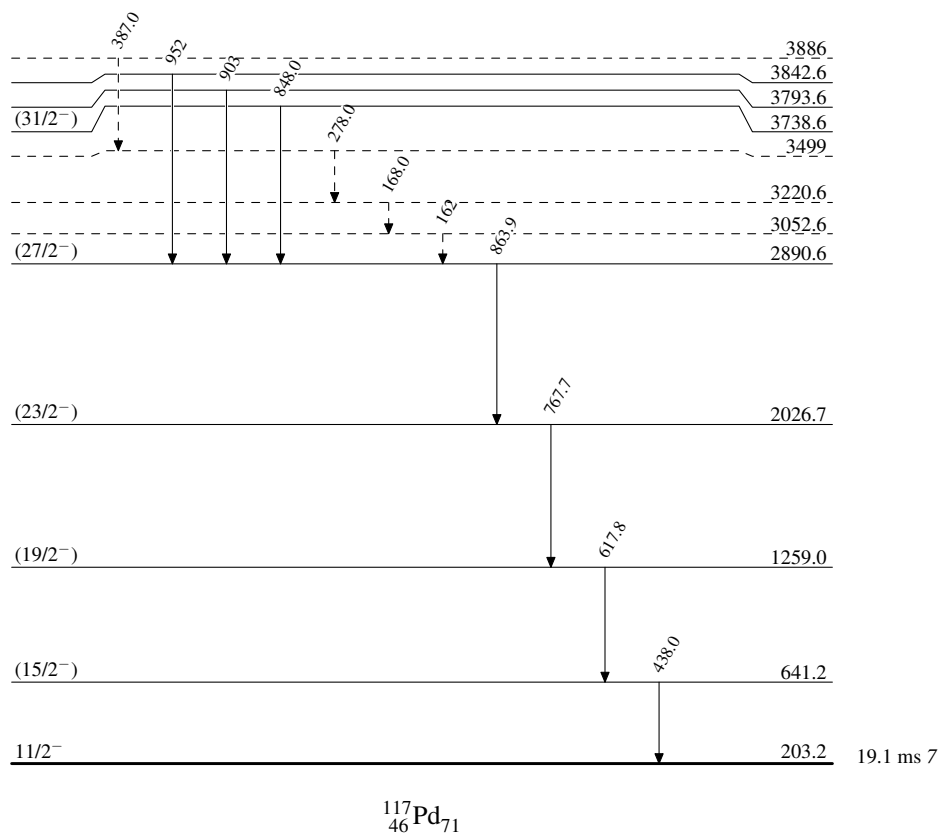
E γ	E _i (level)	J _i ^π	E _f	J _f ^π	E γ	E _i (level)	J _i ^π	E _f	J _f ^π
162 [†]	3052.6?		2890.6	(27/2 ⁻)	767.7	2026.7	(23/2 ⁻)	1259.0	(19/2 ⁻)
168.0 [†]	3220.6?		3052.6?		848.0	3738.6	(31/2 ⁻)	2890.6	(27/2 ⁻)
278.0 [†]	3499?		3220.6?		863.9	2890.6	(27/2 ⁻)	2026.7	(23/2 ⁻)
387.0 [†]	3886?		3499?		903	3793.6		2890.6	(27/2 ⁻)
438.0	641.2	(15/2 ⁻)	203.2	11/2 ⁻	952	3842.6		2890.6	(27/2 ⁻)
617.8	1259.0	(19/2 ⁻)	641.2	(15/2 ⁻)					

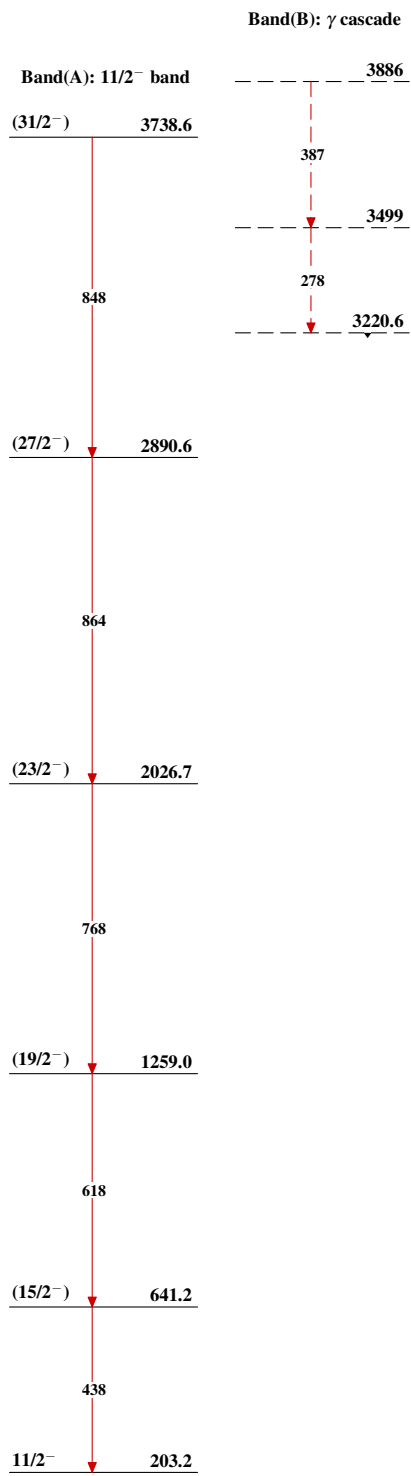
[†] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

 -----► γ Decay (Uncertain)

 $^{117}_{46}\text{Pd}_{71}$

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