

$^{186}\text{W}(7\text{Li},\alpha p\gamma)$ 2013Ma66

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Juutinen, D. J. Hartley		NDS 150, 1 (2018)	1-Feb-2018

2013Ma66: E=31 MeV; an array of eight HPGe detectors and 11 LaBr₃:Ce detectors. Measured E γ , I γ , $\gamma\gamma$ coin., $\gamma\gamma(t)$. Other: 2012MaZP (same collaboration).

 ^{188}W Levels

E(level) [†]	J π [‡]	T _{1/2}	Comments
0.0 [#]	0 ⁺		
142.90 [#] 10	2 ⁺	0.87 ns 12	T _{1/2} : From 143 γ :250 γ -750 $\gamma(t)$ in LaBr ₃ :Ce detectors, using a $\gamma\gamma(t)$ cube gated by the 296 γ , 432 γ and 485 γ in the HPGe detectors.
438.9 [#] 10	4 ⁺		
627.9 [@] 10	2 ⁺		
853.9 10	(0 ⁺ ,2 ⁺ ,4 ⁺)		
870.9 [#] 15	6 ⁺		
978.9 ^{&} 15	2 ⁽⁻⁾		

[†] From a least-squares fit to E γ 's.

[‡] From Adopted Levels.

[#] Band(A): K π =0⁺, g.s. band.

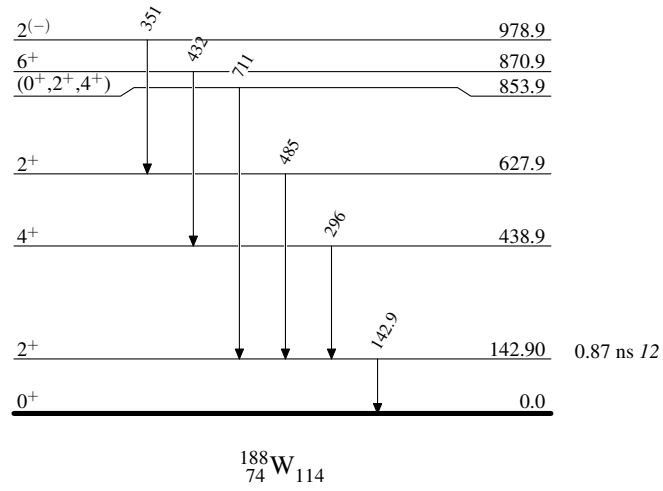
[@] Band(B): K π =2⁺, γ -vibration band.

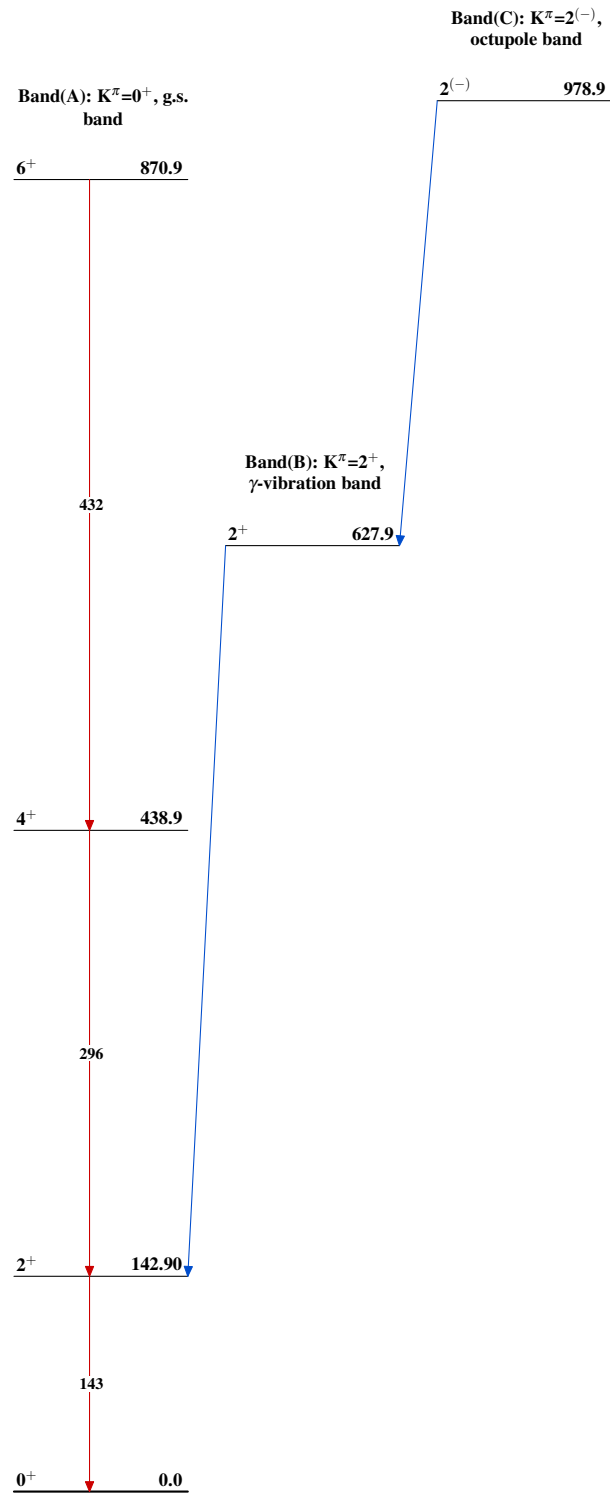
[&] Band(C): K π =2⁽⁻⁾, octupole band.

 $\gamma(^{188}\text{W})$

E γ [†]	E _i (level)	J π _i	E _f	J π _f	Comments
142.9 1	142.90	2 ⁺	0.0	0 ⁺	E γ : From adopted gammas.
296 1	438.9	4 ⁺	142.90	2 ⁺	
351 1	978.9	2 ⁽⁻⁾	627.9	2 ⁺	
432 1	870.9	6 ⁺	438.9	4 ⁺	
485 1	627.9	2 ⁺	142.90	2 ⁺	
711 1	853.9	(0 ⁺ ,2 ⁺ ,4 ⁺)	142.90	2 ⁺	

[†] From the spectrum shown in Figure 1 in 2013Ma66, unless otherwise stated. The placement was made by the evaluators, based on the adopted level scheme.

$^{186}\text{W}(^7\text{Li},\alpha\text{p}\gamma)$ 2013Ma66Level Scheme

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