

$^{184}\text{W}(n,\gamma)$  E=184,311,425 eV 1969MuZQ

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 106, 619 (2005)	1-Nov-2005

Measured  $E_\gamma$ ,  $I_\gamma$  of primary  $\gamma$  rays. Other: 1969Sa01.

 $^{185}\text{W}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	Comments
0	$3/2^-$	
93	$3/2^-$	
663	$3/2^-$	
767	$1/2^-, 3/2^-$	
825	$1/2^-, 3/2^-$	
971		
1005	$1/2^-$	
1102	$3/2^-$	
1147	$(3/2^-, 5/2^+)$	
1219	$3/2^-$	
1499	$1/2^-, 3/2^-$	
1537	$(1/2^-, 3/2)$	
1841	$(1/2^-, 3/2)$	
5755		E(level): from $E_\gamma$ (1969MuZQ). $E \approx S(n) + 0.3$ ; $S(n) = 5753.73$ (2003Au03).

<sup>†</sup> From Adopted Levels.

 $\gamma(^{185}\text{W})$ 

$E_\gamma$	$I_\gamma$ <sup>†‡</sup>	$E_i(\text{level})$	$E_f$	$J_f^\pi$	$E_\gamma$	$I_\gamma$ <sup>†‡</sup>	$E_i(\text{level})$	$E_f$	$J_f^\pi$
3914	3.6 5	5755	1841	$(1/2^-, 3/2)$	4784	1.3 3	5755	971	
4218	1.4 4	5755	1537	$(1/2^-, 3/2)$	4930	6.7 5	5755	825	$1/2^-, 3/2^-$
4256	1.2 4	5755	1499	$1/2^-, 3/2^-$	4988	0.5 3	5755	767	$1/2^-, 3/2^-$
4536	3.3 4	5755	1219	$3/2^-$	5092	1.4 3	5755	663	$3/2^-$
4608	3.1 4	5755	1147	$(3/2^-, 5/2^+)$	5662	0.5 2	5755	93	$3/2^-$
4653	7.3 4	5755	1102	$3/2^-$	5755	11.8 3	5755	0	$3/2^-$
4750	0.5 3	5755	1005	$1/2^-$					

<sup>†</sup> Primary  $\gamma$ -ray intensities per 100 neutron captures at 184-eV resonance. Measured in fast coincidence with neutrons from the 184-eV resonance using a time-of-flight method to select neutrons from this resonance. See 1969MuZQ and 1974E108 for intensities from 311- and 425-eV resonances.

<sup>‡</sup> Intensity per 100 neutron captures.

$^{184}\text{W}(n,\gamma) E=184,311,425 \text{ eV}$  1969MuZQ

## Level Scheme

Intensities:  $I_\gamma$  per 100 neutron captures

## Legend

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

