

$^{182}\text{W}(\text{n},\text{n}')$ [1981De02](#),[1982Gu18](#),[1985An20](#)

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Balraj Singh	NDS 130, 21 (2015)	15-Jul-2015

[1981De02](#): E(n)=3.4 MeV. Coupled channel and statistical model analysis.

[1982Gu18](#): E(n)=0.3-5.0 MeV. Coupled channel and statistical model analysis.

[1985An20](#): E(n)=4.87, 6.00 MeV. Coupled channel and rotational- vibrational model analysis.

Other: [1967Li11](#).

 ^{182}W Levels

<u>E(level)[†]</u>	<u>J^π[#]</u>	<u>Comments</u>
0	0 ⁺	Matter (rms) radius=5.47 fm <i>I</i> 2 (1981De12). $\beta_2=0.223$, $\beta_4=-0.054$ (1981De02). $Q_0=2.22$ <i>I</i> 1, Hexadecapole moment=-0.188 eb ² 28 (1981De12 , 1985An20).
102 8	2 ⁺	
326 15	4 ⁺	
671 14	6 ⁺	
1138 16	0 ⁺	
1229 12	2 ⁺	
1281 22	2 ⁺	
1309 18		
1357 21		
1428 38		
1492 15		
1539 16		
1618 24		
≈1678?		
1745 23		
1792 20		
1858 20		
1914 20		
1988 21		
2059 25		
2121		
2185		
2247		
2299		
2382 28		
2468 15		
2543 22		
2615 15		
2690		
2768		
2819? [‡]		
2867? [‡]		
2932? [‡]		
2979? [‡]		
3022? [‡]		
3062? [‡]		

[†] From [1982Gu18](#), uncertainty not given when less than five observations are available.

[‡] Tentative assignment due to excitation of several unresolved levels.

[#] From angular distributions. Systematics of (n,n') show that only positive-parity states are strongly populated. The assignments are the same in Adopted Levels.