

¹⁸⁴W(n,n') 1967Li11,1981De02,1985An20

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 111,275 (2010)	1-Oct-2009

Dataset includes ¹⁸⁴W(pol n,n) (1964Bu06; E(n)=3.05-3.40 MeV).

Others: 1967Li11, 1981De02.

1985An20: E(n)=4.87, 6 MeV, beam energy spread≈50 keV; 99% ¹⁸⁴W target; tof, NE213 detector (FWHM=65-75 keV); measured E(n), σ(θ); coupled channels analysis.

1982Gu18: E(n)=0.3-5 MeV, monoenergetic pulsed beam, energy spread 10-50 keV; >95% enriched target; tof, P recoil scintillation detector; measured σ (E=1-5 MeV, 200 keV steps), σ(θ), θ=20°-160° (10 angles, E(n)=1.5-4.0 MeV); statistical model and coupled channels analyses.

1981De02: E(n)=3.40 MeV; measured σ(θ), θ(lab)=20°-160°; 94.9% ¹⁸⁴W target; coupled channels and statistical model analyses. Deduced β₂, β₄, charge and matter radii.

1967Li11: E=0.3-1.5 MeV. Data supersedes earlier data by one of the present authors (1963Sm07). A level at 690, tentatively reported by 1963Sm07, was not confirmed by 1967Li11 and, consequently, is not included here.

¹⁸⁴W Levels

E(level) [†]	Comments
0.0	
110 5	β ₂ =+0.209 (1981De02, 1985An20).
360 10	β ₄₂ =-0.056 (1981De02, 1985An20).
748 [‡]	
901 10	
1003 10	
1120 10	
1134 [‡]	unresolved from 1121 level (1985An20).
1221 [‡]	
1323 [#] 43	
1376 [#] 23	
1435 [#] 17	
1528 [#] 12	
1613 [#] 18	
1667 [#] 13	
1725 [#] 29	
1787 [#] 32	
1911 [#] 25	
2008 [#] 30	
2105 [#] 37	
2155 [#] 34	
2240 [#] 25	
2324 [#] 24	
2440 [#]	
2520 [#]	
2580 [#]	
2638 [#]	
2663 [#]	
2735 [#]	
2811 [?] #	

Continued on next page (footnotes at end of table)

 $^{184}\text{W}(\text{n},\text{n}')$ **1967Li11,1981De02,1985An20** (continued) ^{184}W Levels (continued)E(level)[†]2866[‡]2918[#]

[†] From **1967Li11**, except As noted.

[‡] Rounded value from Adopted Levels. reported by **1985An20**.

[#] From **1982Gu18**. authors state uncertainty only when At least five determinations were made. values shown As uncertain are tentative and May result from the excitation of more than one level.