

$^{186}\text{W}(\alpha,t), ^{186}\text{W}(^3\text{He,d})$ 1971Lu01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 110, 999 (2009)	1-Nov-2008

$E(\alpha)=30$ MeV, FWHM=11 keV; $E(^3\text{He})=28$ MeV, FWHM=25 keV.

 ^{187}Re Levels

E(level) [#]	L [†]	C ² S ^a	Comments
0 3	2	1.48,1.48 ^b	
136 @ 3		0.07	
211 @ 3		0.026	
302 @ 3		0.02	
390 3	5	1.08,1.50	
513 3	0	0.50,0.40	
592 3	2	0.15,0.20	
621 & 3	2	0.19,0.28	
648 3	2	0.086,0.10	
775 3	2	1.38,0.90 ^c	L: 2,3 from $d\sigma(\alpha,t)/d\sigma(^3\text{He,d})$.
818 3	2		L: 1,2 from $d\sigma(\alpha,t)/d\sigma(^3\text{He,d})$.
882 @ 3		0.08	
1079 3	(0,1) [‡]	0.42,0.40 ^c	
1126 3	(2) [‡]	0.18,0.18	
1163 3	(2) [‡]	0.34,0.38	
1201 3	(5) [‡]	3.04,4.5 ^d	
1208 @ 3	(5) [‡]	1.76,4.5 ^d	
1233 3	(3) [‡]	0.78,0.56	
1266 3			
1286 3			
1343 3			
1380 3			
1423 3			
1488 3	(2) [‡]	0.32,0.32	
1506 3	(2,3) [‡]		
1546 3			
1608 3			
1683 3			
1713 3			
1736 3			
1789 3	(2) [‡]	0.28,0.28	
1808 3			
1836 3			
1876 3	(2) [‡]	0.70,0.52	
1905 3	(2) [‡]	0.72,0.64	
1922 3	(2) [‡]	1.12,0.82	
1948 3	(0) [‡]	0.38,0.32	
1963 3	(2) [‡]	0.64,0.50	
1990 3	(2) [‡]	0.32,0.28	
2019 3			

[†] Deduced by 1971Lu01 from angular distributions in the ($^3\text{He,d}$) reaction, except otherwise noted.

 $^{186}\text{W}(\alpha,t), ^{186}\text{W}(^3\text{He,d})$ **1971Lu01 (continued)**

 ^{187}Re Levels (continued)

- ‡ Only from $d\sigma(\alpha,t)/d\sigma(^3\text{He,d})$ reactions at $\theta=45^\circ$.
Average of values from (α,t) and $(^3\text{He,d})$, except otherwise noted.
@ Populated only in (α,t) .
& Doublet.
^a The first value is from (α,t) , the second from $(^3\text{He,d})$.
^b Normalized to DWBA value.
^c Value for lower L.
^d These levels are not resolved in $(^3\text{He,d})$. C²S is for a single L=5 level assuming J=9/2.