¹⁸⁶W(³He,α),(d,t) **1973K107**

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

Target: >94% enriched ¹⁸⁶W. Projectiles: ³He, E=20.3 MeV, and deuterons, E=12.1 MeV. Measured scattered α 's and tritons. Detector: magnetic spectrograph, FWHM(α) \approx 30 keV, FWHM(t) \approx 8 keV.

¹⁸⁵W Levels

E(level) [†]	J ^π a	L‡
(0)		
384 [@]	$13/2^{+}$	6
716 <mark>&</mark>	$(9/2^+)$	
1020 [#]	$13/2^{+}$	6
1561 [#]	$13/2^{+}$	6
1666 <mark>#</mark>	$(9/2^+)$	
1846 [#]	13/2+	6

[†] From 1972Ca01.

^{\ddagger} Deduced from (³He, α)/(d,t) measured cross-section ratios.

[#] N=6 ($i_{13/2}$) strongly Coriolis-mixed state.

@ 11/2[615].

[&] 9/2[624].

^{*a*} Spin/parity and Nilsson orbital assignments are based on measured L-value transfers, on the comparison of experimental cross-sections with values calculated with the DWBA approximation and Nilsson's model (including an hexadecapole deformation), and on the energy systematics of Nilsson orbitals in odd-A tungsten nuclei.