

$^{184}\text{W}(^{12}\text{C}, ^{12}\text{C}'), (^{18}\text{O}, ^{18}\text{O}')$ [1980Va06](#), [1977Th01](#)

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

[1980Va06](#): ($^{12}\text{C}, ^{12}\text{C}'$), E=70 MeV; measured $\sigma(\theta)$; coupled channels calculations.

[1977Th01](#): ($^{18}\text{O}, ^{18}\text{O}'$), E=90 MeV; ($^{12}\text{C}, ^{12}\text{C}'$), E=70 MeV; QDDD spectrometer (FWHM=60 keV for ^{12}C , 80 keV for ^{18}O); measured $\sigma(\theta)$ for g.s. and 111 level; coupled-channels calculations.

 ^{184}W Levels

E(level) [†]	J π [‡]	Comments
0.0	0 ⁺	
111	2 ⁺	
364	4 ⁺	$\sigma(\theta)$ for ($^{12}\text{C}, ^{12}\text{C}'$) differs dramatically from pure Coulomb prediction (1980Va06) but can be fitted well by a rotor model coupled-channels calculation with negative hexadecapole deformation length.

[†] Rounded values from Adopted Levels.

[‡] From Adopted Levels.