

<sup>184</sup>W( $\alpha, \alpha'$ )    **1981Ba01**

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

**1981Ba01:**  $E\alpha=24$  MeV; split-pole spectrograph with position-sensitive proportional detector (FWHM $\approx$ 35); measured  $\sigma(\theta)$ ,  $\theta=40^\circ-140^\circ$ ; coupled-channels analysis.

**1974Le16:**  $E\alpha=12.5-19$  MeV; cooled surface-barrier detectors (FWHM $\approx$ 25 keV); measured excit,  $\theta=140^\circ$  and  $173.5^\circ$  for population of g.s., 111 and 364 level; coupled-channels calculations; deduced optical potential  $\beta_2$  and  $\beta_4$ ; observed strong destructive nuclear-Coulomb interference effects.

<sup>184</sup>W Levels

E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	Comments
0	0 <sup>+</sup>	
111	2 <sup>+</sup>	$\beta_2$ (matter): +0.192 (1974Le16), +0.183 15 (1981Ba01). $\beta_4$ (charge): +0.254 (1974Le16), +0.316 5 (1981Ba01).
364	4 <sup>+</sup>	$\beta_4$ (matter): -0.075 (1974Le16), -0.064 10 (1981Ba01). $\beta_4$ (charge): -0.089 (1974Le16), -0.18 4 (1981Ba01).
748	6 <sup>+</sup>	
903	2 <sup>+</sup>	
1121	2 <sup>+</sup>	
1221	3 <sup>-</sup>	$\beta_3$ (matter)=+0.048, $\beta_3$ (charge)=+0.063 (1981Ba01) (if K=0).

<sup>†</sup> Rounded value from Adopted Levels.

<sup>‡</sup> From Adopted Levels.