^{182}W(e,e′) 1987PeZV

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 130, 21 (2015)	15-Jul-2015

1987PeZV: E=75-345 MeV for scattering at 90° and 150-250 MeV for scattering at 45°. Measured cross sections at 45° and 90° for E(e)=75-345 MeV, deduced form factors and charge densities. The ground state band observed up to 8^+. Comparisons with Hartree- Fock calculations and nuclear models (rotational model and IBA).
In table 6.1.1 of 1987PeZV, cross sections at 90° and 45° for 30 different electron energies are listed.

^{182}W Levels

E(level)†	J^π‡	Comments
0	0^+	RMS radius=5.361 fm *4* (1987PeZV). dσ/dΩ=1.55 mb/sr *4* at 45° and 148.35 MeV; 0.466 mb/sr *16* at 90° and 75.9 MeV. In table 6.1.1 of 1987PeZV, cross sections at 45° are listed for four higher (175-252 MeV) electron energies and at 90° for 24 higher (89-343 MeV) electron energies.
100	2^+	B(E2)↑=4.14 *3* (1987PeZV) B(E2)=4.34 *8* is also listed by 1987PeZV in table 6.1.3. dσ/dΩ=57.4 μb/sr *14* at 45° and 174.8 MeV; 33.7 μb/sr *16* at 90° and 75.9 MeV. In table 6.1.1 of 1987PeZV, cross sections at 45° are listed for three higher (199-252 MeV) electron energies and at 90° for 24 higher (89-343 MeV) electron energies.
329	4^+	B(E4)↑=7.7×10^{-2} *16* (1987PeZV) dσ/dΩ=5.3 μb/sr *7* at 45° and 148.35 MeV; 0.62 μb/sr *9* at 90° and 88.97 MeV. In table 6.1.1 of 1987PeZV, cross sections at 45° are listed for four higher (174-252 MeV) electron energies and at 90° for 23 higher (89-343 MeV) electron energies.
681	6^+	B(E6)↑=1.2×10^{-2} *5* (1987PeZV) dσ/dΩ=20 nb/sr *6* at 90° and 127.0 MeV. In table 6.1.1 of 1987PeZV, cross sections are listed at 90° for 16 higher (140-329 MeV) electron energies.
1144	8^+	BE8UP=2.9×10^{-4} *17* (1987PeZV) E(level): this level is close in energy of the first excited 0^+ state at 1136, but 1987PeZV discuss that in (e,e′), the 0^+ state is not expected to be populated, thus all of the 1144 peak is due to 8^+. dσ/dΩ=2.1 nb/sr *10* at 90° and 155.85 MeV. In table 6.1.8 of 1987PeZV, cross sections are listed at 90° for seven higher (166-241 MeV) electron energies.

† Rounded values from Adopted Levels.
‡ From Adopted Levels.