$^{208}\text{Pb}(p,d),(\text{pol } p,d)$ **1971Sm04,1982Di17,1997Ma28**

1971Sm04: Facility: Oak Ridge Isochronous Cyclotron; Beam: E(p)=40.7 MeV; Target: enriched in ^{208}Pb; Detectors: Broad range spectrograph; Measured: E(d), $d\sigma/d\Omega$, FWHM=40 keV; Deduced: level energies, DWBA with JULIE, spectroscopic factors.

1982Di17: Facility: Univ. Colorado AVF cyclotron; Beam: E(p)=26.3 MeV; Target: 200 μg/cm^2 enriched to 99.1% in ^{208}Pb, 20 μg/cm^2 backing; Detectors: energy-loss spectrograph, proportional counter, plastic scintillator; Measured: E(d), $d\sigma/d\Omega$; Deduced: level energies, DWBA with DWUCK, spectroscopic factors.

1997Ma28: Facility: AVF cyclotron at Osaka Univ; E(pol P)=65 MeV; Detectors: RAIDEN spectrograph; Measured: E(d), FWHM=35 keV, $d\sigma/d\Omega$; Deduced: level energies, DWBA with DWUCK, spectroscopic factors.

1968Ya07: E=55 MeV, FWHM=0.16%.

1969Wh06: E=22 MeV, FWHM=50 keV (estimated by evaluator).

1974La01: E=35 MeV, FWHM=50 keV (data given in spectrum only).

1978An19: E=121 MeV, FWHM=125 keV.

1981To05: E(pol p)=22 MeV, FWHM=40 keV.

1982Di17: E=26.3 MeV, FWHM=40 keV.

1983Kr02: E(pol p)=123 MeV, FWHM=135 keV.

1983Na01: E(pol p)=94 MeV, FWHM=55 keV.

^{207}Pb Levels

E(level)[†]	J$^\pi$[‡]	L[#]	C^{2}S[@]	Comments
0	1/2$^-$	1	2.15	C^{2}S: 2.7 (1982Di17); 2.2 (1997Ma28).
570 20	5/2$^-$	3	6.3	C^{2}S: 4.5 (1982Di17); 5.28 (1997Ma28). configuration: $\nu(2f_{5/2})^{-1}$.
890 20	3/2$^-$	1	3.8	C^{2}S: 6.0 (1982Di17); 3.84 (1997Ma28). configuration: $\nu(3p_{3/2})^{-1}$.
1630 20	13/2$^+$	6	8.5	C^{2}S: 4.1 (1982Di17);6.86 (1997Ma28). configuration: $\nu(1i_{13/2})^{-1}$.
2340 20	7/2$^-$	3	5.1	C^{2}S: 8.0 (1982Di17); 4.4 (1997Ma28). configuration: $\nu(2f_{7/2})^{-1}$.
2640 20				
2707	(7/2$^+$,9/2$^+$)	(4)[&]	0.1	E(level),C^{2}S: from 1982Di17.
2740 20	9/2$^+$	4	0.05	
3190 20				
3223	(11/2$^+$,13/2$^+$)	(6)[&]	0.05	E(level),C^{2}S: from 1982Di17.
3290 20	1/2$^+$	0	0.10	configuration: $\nu(2f_{5/2})^{-1}\otimes 3^-$.
3400 20	9/2$^-$	5	6.8	C^{2}S: 2.0 (1982Di17); 5.6 (1997Ma28).
3580 20	9/2$^-$,11/2$^-$	5[&]		E(level): 3560 in 1982Di17.
3640 20	(9/2$^-$,11/2$^-$)	(5)[&]		
3910 20				
4100 20				
4200 20	(11/2$^+$,13/2$^+$)	(6)[&]		
4290 20				
4520 20	5/2$^-$,7/2$^-$	3	0.51	configuration: $\nu(1i_{13/2})^{-1}\otimes 3^-$.
4765	(11/2$^+$,13/2$^+$)	(6)[&]		E(level): from 1982Di17.
5060 20				
5080	(9/2$^-$,11/2$^-$)	(5)[&]		E(level): from 1982Di17.
5290 20	3/2$^+$,5/2$^+$	2	0.12	configuration: $\nu(2f_{7/2})^{-1}\otimes 3^-$ or $\nu(1h_{9/2})^{-1}\otimes 3^-$.
5360 20				
5390	(9/2$^-$,11/2$^-$)	(5)[&]		E(level): from 1982Di17.
5470 20	(5/2$^-$,7/2$^-$)	(3)	0.31	

<u>^{208}Pb(p,d),(pol p,d)</u>   **1971Sm04,1982Di17,1997Ma28 (continued)**

<u>^{207}Pb Levels</u> (continued)

<u>E(level)[†]</u>
5600 *20*
5690 *20*
6780 *20*

[†] From 1971Sm04, unless otherwise noted.
[‡] Based on L.
[#] Based on DWBA in 1971Sm04, unless otherwise noted.
[@] From 1971Sm04, unless otherwise noted. $C^2S=(1/N)\sigma_{exp}/\sigma_{DWBA}$, N=2.43.
[&] From DWBA in 1982Di17.