^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 201,346 (2025)	21-Jan-2025

1982DiZT,1983Di07: E(n)=4.8 MeV, including data with E(n) up to 8 MeV, from the ORELA facility at ORNL. Detectors: Ge(Li). Measured: Eγ, Iγ.

2015Ne11: E(n) up to 18 MeV from IRMM facility at Geel. Enriched ^{206}Pb target. Detectors: HPGe. Measured: Eγ, Iγ, excitation functions. Deduced: total inelastic and level cross sections.

Other (n,n′γ) studies: 1960De10, 1961Bo21, 1961Li04, 1962Do12, 1964Ne07, 1968NeZZ, 1970Jo28, 1971Fr05, 1990Be56, 1995An36, 2000Zh02.

^{206}Pb Levels

E(level)†	Jπ‡	$T_{1/2}$	Comments
0.0	0^+		
803.1 *6*	2^+		
1340.3 *7*	3^+		
1466.6 *6*	2^+		
1683.8 *8*	4^+		
1704.3 *6*	1^+		
1784.2 *8*	2^+		
1997.4 *8*	4^+		
2148.5 *8*	2^+		
2196.3 *8*	$(3)^+$		
2200.3 *8*	7^-	125 μs *19*	$T_{1/2}$: From γ(t) in 1995An36. Others: 126 μs *6* (1966MoZZ) and 119 μs *3* (1973DaZL).
2235.7 *12*			
2313.8	0^+		
2384.0 *11*	6^-		
2391.3 *6*			E(level): Observed only in 2015Ne11.
2423.2 *6*	2^+		
2647.5 *13*	3^-		
2658.5	9^-		
2782.0 *10*	5^-		
2826.2 *12*	$(4)^-$		
2864.5 *8*	7^-		
2928.5 *13*	4^+		
2939.7 *11*	6^-		
3016.2 *11*	5^-		
3120.9 *14*	(3^+)		
3195.1 *20*	(1,2)		
3224.9 *14*	$(6,7)^-$		
3243.9 *8*	4^-		
3259.8 *12*	6^+		
3279.0 *10*	5^-		
3402.5 *10*	5^-		
3453.5 *15*	4^+		
3484.3 *13*			
3516 *3*	(4^+)		
3562.4 *11*	5^-		
3606	2^+		
3683			
3744.3 *17*	1		
3775.7 *12*	5^-		
3780			
3944			
3963 *3*	4^+		
3971 *3*			

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^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11 (continued)

^{206}Pb Levels (continued)

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡
3989 *3*		4420 *4*		4795 *3*	5^-	5513	
3997 *3*		4427		4848 *4*		5522	1
4005	(4^+)	4434.1 *20*		4914	(3^-)	5580 *4*	1^-
4010 *3*		4459 *3*	(5^-)	4966	(3^-)	5602 *4*	(2^+)
4035 *3*		4469.3 *19*		4972	1^-	5618 *4*	1^-
4045 *3*		4483.0 *19*		5042	1^-	5741 *4*	
4051 *3*		4512 *3*		5089 *3*	3^+	5775	(1^-)
4066 *3*	$(5)^-$	4525 *3*		5180 *4*		5832	
4076 *3*		4606 *4*	1^-	5195 *4*	$(2^+,3^+)$	5840 *4*	1^-
4116.7 *18*	2^+	4648 *4*		5236		5936	
4187 *3*		4657 *3*		5247	2^+	5994 *4*	
4212 *3*		4675 *3*		5276 *4*	(1^-)	6197 *4*	
4238	(5^-)	4697 *3*		5282		6236	
4330.7 *19*	1^-	4717 *4*		5315 *4*	(2^+)	6251 *4*	
4340 *3*	4^+	4730 *3*		5350		6260 *4*	
4347 *3*	6^+	4756 *3*		5379 *4*	1		
4385	(5^-)	4763 *4*		5390 *4*			
4410 *3*		4782 *4*	1	5415	(4^+)		

† From a least-squares fit to Eγ.
‡ From Adopted Levels.

γ(^{206}Pb)

The γ placements have been taken from table 1 of 1982DiZT. Additional information shown in the level drawings of 1982DiZT or suggested by other decay modes are noted in comments.

E_γ†	I_γ†	E_i(level)	J_i^π	E_f	J_f^π	Mult.[e]	δ[e]	Comments
184.0[bh] *6*		2384.0	6^-	2200.3	7^-	M1(+E2)	−0.01 *2*	
314	1.70 *25*	1997.4	4^+	1683.8	4^+	M1+E2	−0.23 *5*	
317 *2*	1.70 *25*	1784.2	2^+	1466.6	2^+			
343.5 *7*	7.3 *3*	1683.8	4^+	1340.3	3^+	M1+E2	−0.11 *4*	
x364	0.20 *15*							
398 *2*	3.38 *23*	2782.0	5^-	2384.0	6^-			
x434.9[#] *7*	0.65[#] *16*							
x450 *2*	0.45 *17*							
x472 *2*	0.36 *16*							
479.5[@h] *7*	2.3[@] *3*	2864.5	7^-	2384.0	6^-			
497.1 *7*	2.1 *3*	3279.0	5^-	2782.0	5^-			
515.7[g]	1.6[g] *4*	2200.3	7^-	1683.8	4^+			
515.7[g]	1.6[g] *4*	3775.7	5^-	3259.8	6^+			
537.5 *8*	32.0 *4*	1340.3	3^+	803.1	2^+	M1(+E2)	−0.02 *2*	
x607.0 *8*	0.44 *20*							
x610.3 *8*	0.45 *20*							E_γ: From author's figure and text, tentative placement is from the 2313-keV level.
x617.6 *8*	0.40 *25*							
620.5 *8*	0.27 *13*	3402.5	5^-	2782.0	5^-			
632.3[#] *8*	1.77[#] *17*	3016.2	5^-	2384.0	6^-			
x637.1 *8*	0.59 *23*							
657.2 *8*	6.65 *16*	1997.4	4^+	1340.3	3^+	M1+E2	0.15 *2*	

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^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11 (continued)

γ(^{206}Pb) (continued)

E_γ [†]	I_γ [†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[e]	δ[e]	Comments
663.7 *8*	7.30 *17*	1466.6	2^+	803.1	2^+	M1+E2	−0.07 *2*	I_γ: In ^{206}Bi ε decay, 2.5 units of this Iγ should be from the 2864-keV level, thus leaving 4.8 from this level.
664.17[‡] *10*	2.5 *3*	2864.5	7^-	2200.3	7^-			I_γ: Using the branching ratio in 2015Ne11.
682.21		2148.5	2^+	1466.6	2^+	M1+E2	−0.22 *5*	
718.92[‡] *5*	1.19 *4*	2423.2	2^+	1704.3	1^+			I_γ: Using the branching ratio in 2015Ne11.
[x]719.1 *8*	1.05 *9*							E_γ: From author's figure, and text, tentative placement is from the 2432-keV level.
729.2 *8*	0.20 *8*	2196.3	$(3)^+$	1466.6	2^+	M1(+E2)	−0.05 *5*	E_γ: 730.17 keV (1989BeYQ).
739.4 *8*	0.98 *13*	2939.7	6^-	2200.3	7^-			
[x]747.3 *8*	0.58 *19*							
[x]755.0[#] *8*	0.33[#] *19*							
803.1 *8*	100	803.1	2^+	0.0	0^+			
808.25		2148.5	2^+	1340.3	3^+	M1+E2	−0.27 *11*	
[x]814.7 *8*	0.12 *9*							
840.9[#] *9*	0.72[#] *23*	3224.9	$(6,7)^-$	2384.0	6^-			
856 *2*	2.99 *18*	2196.3	$(3)^+$	1340.3	3^+	M1+E2	−0.026 *15*	
[x]863 *2*	0.30 *15*							
[x]868 *2*	0.45 *25*							E_γ: From authors' figure placement is from the 3515-keV level.
881.0 *9*	17.30 *25*	1683.8	4^+	803.1	2^+			
894.7	1.84 *25*	3279.0	5^-	2384.0	6^-			
[x]898 *2*	2.2 *3*							E_γ: Energy fits from the 1703-keV level, but authors state that Iγ<0.18 for this placement.
[x]920.7[#] *9*	0.40[#] *10*							
[x]926.1 *9*	0.20 *15*							
[x]930.4 *9*	0.20 *15*							
[x]935.4 *9*	0.17 *12*							
956.56[‡] *11*	0.39 *3*	2423.2	2^+	1466.6	2^+			I_γ: Using the branching ratio in 2015Ne11.
957.5[h] *9*	0.63 *13*	3606	2^+	2647.5	3^-			
[x]962[@] *2*	0.71[@] *14*							
[x]968.9 *9*	0.30 *13*							
980.9 *9*	5.23 *20*	1784.2	2^+	803.1	2^+	M1+E2	0.17 *2*	
995.1[h] *9*	0.21 *7*	4116.7	2^+	3120.9	(3^+)			
[x]1014[@] *2*	0.14[@] *7*							
1018.6 *9*	0.27 *6*	3402.5	5^-	2384.0	6^-			
[x]1024.1 *9*	0.13 *9*							
[x]1031.0 *9*	0.38 *10*							
1047.6 *9*	0.22 *11*	3243.9	4^-	2196.3	$(3)^+$			
1075.9[h] *9*	0.38 *20*	4005	(4^+)	2928.5	4^+			
[x]1093.3 *9*	1.27 *21*							
1098.3 *9*	2.76 *5*	2782.0	5^-	1683.8	4^+			I_γ: Using the branching ratio in 2015Ne11; Iγ=2.33 *21* in 1982DiZT.
[x]1113.4 *9*	0.17 *5*							
[x]1124.4 *9*	0.18 *10*							
[x]1139.3 *9*	0.44 *21*							

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^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11 (continued)

γ(^{206}Pb) (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[e]	δ[e]	Comments
1142.4 *9*	0.56 *23*	2826.2	(4)$^-$	1683.8	4$^+$			
[x]1180.7 *10*	0.77 *12*							
1180.70[‡] *10*	1.72 *22*	2864.5	7$^-$	1683.8	4$^+$			I_γ: Using the branching ratio in 2015Ne11.
1193.8 *9*	0.65 *15*	1997.4	4$^+$	803.1	2$^+$			
[x]1235.0 *10*	0.24 *7*							
1239.0[@c] *10*	0.24[@] *7*	4434.1		3195.1	(1,2)			
1246.5 *10*	0.44 *6*	3243.9	4$^-$	1997.4	4$^+$			I_γ: Using the branching ratio in 2015Ne11; Iγ=0.54 *8* in 1982DiZT.
[x]1268 *2*	0.51 *13*							
[x]1283 *2*	0.54 *13*							
[x]1291 *2*	0.32 *13*							
[x]1305 *2*	0.24 *18*							
[x]1325 *2*	0.49 *24*							
1332.3[d] *10*	0.49 *24*	3016.2	5$^-$	1683.8	4$^+$			
1344.8 *10*	2.97 *21*	2148.5	2$^+$	803.1	2$^+$	M1+E2	−0.17 *2*	
[x]1361.4 *10*	0.74 *33*							
[x]1368.0[#] *10*	0.26[#] *12*							
[x]1385.5 *10*	0.60 *20*							
1393.7 *10*	2.34 *15*	2196.3	(3)$^+$	803.1	2$^+$	M1+E2	−0.019 *9*	
[x]1416[b] *2*								
1432.6[#] *10*	2.81[#] *15*	2235.7		803.1	2$^+$			
[x]1452.3 *10*	0.52 *25*							
[x]1457 *2*	0.53 *25*							
[x]1460[#] *2*	0.5[#] *3*							
1466.7 *10*	2.13 *13*	1466.6	2$^+$	0.0	0$^+$			
[x]1472.4 *10*	0.6 *3*							
[x]1480[&]	0.21[&] *12*							
[x]1487[&] *2*	0.22[&] *13*							
[x]1495[@] *2*	0.23[@] *10*							
1520.0[h] *11*	0.27 *10*	3944		2423.2	2$^+$			
[x]1525.5 *11*	0.24 *10*							
[x]1532.7 *11*	0.13 *7*							
[x]1537.7 *11*	0.11 *7*							
[x]1546.4[@] *11*	0.14[@] *6*							
1560.3 *11*	1.20 *16*	3243.9	4$^-$	1683.8	4$^+$			
1565.0 *11*	0.36 *12*	3562.4	5$^-$	1997.4	4$^+$			
1575.9 *11*	0.77 *16*	3259.8	6$^+$	1683.8	4$^+$			
[x]1580.1 *11*	0.33 *16*							
[x]1585.1 *11*	0.78 *24*							
1588.2[‡] *1*		2391.3		803.1	2$^+$			
1588.2 *11*	1.94 *23*	2928.5	4$^+$	1340.3	3$^+$			
1595.3 *11*	0.58 *23*	3279.0	5$^-$	1683.8	4$^+$			
[x]1614[b] *2*								
1620.0 *11*	1.87 *19*	2423.2	2$^+$	803.1	2$^+$			
[x]1648 *2*	0.33 *9*							
[x]1653[&] *2*	0.26[&] *13*							
[x]1655.5[&] *11*	0.26[&] *13*							
[x]1686[b] *2*								
[x]1690[#] *2*	0.66[#] *12*							
1700.1 *11*	1.5 *6*	3484.3		1784.2	2$^+$			

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^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11 (continued)

γ(^{206}Pb) (continued)

E_γ †	I_γ †	E_i(level)	J_i^π	E_f	J_f^π	Comments
1703.5 *11*	4.6 *6*	1704.3	1^+	0.0	0^+	
x1714[b] *2*						
x1717.3[&] *11*	0.82[&] *24*					
1718.7[&] *11*	0.83[&] *24*	3402.5	5^-	1683.8	4^+	
x1749[#] *2*	0.42[#] *10*					
x1757.0 *11*	0.21 *8*					
x1764.8 *11*	0.25 *12*					
x1769.7 *11*	1.39 *16*					
1778.4[h] *11*	0.16 *8*	3775.7	5^-	1997.4	4^+	
x1782[&] *2*	0.13[&] *8*					
1784.7 *11*	0.27 *8*	1784.2	2^+	0.0	0^+	
x1786.5 *11*	0.33 *10*					
x1795.3 *11*	0.98 *17*					
x1800.9 *11*	0.53 *17*					
1821.7[#h] *11*	0.98[#] *9*	3606	2^+	1784.2	2^+	
x1835.9[&] *12*	0.49[&] *22*					
1844.4 *11*	5.81 *16*	2647.5	3^-	803.1	2^+	
1854.1[h] *11*	0.20 *15*	4238	(5^-)	2384.0	6^-	
x1861.5 *12*	0.41 *8*					
x1869.7 *12*	0.27 *12*					
x1873.4[&] *12*	0.37[&] *14*					
1878.7 *12*	0.85 *10*	3562.4	5^-	1683.8	4^+	
1899.6[h] *12*	0.36 *14*	3683		1784.2	2^+	
1903.6 *12*	1.25 *17*	3243.9	4^-	1340.3	3^+	I_γ: Using the branching ratio in 2015Ne11; Iγ=0.82 *14* in 1982DiZT.
x1927[b] *2*						
x1933.1 *12*	0.20 *13*					
x1938.5 *12*	0.28 *13*					
x1955.2[&] *12*	0.29[&] *13*					
x1961.0[&] *12*	0.29[&] *13*					
x1971.3[#] *12*	0.76[#] *8*					
x1981 *2*	0.08 *4*					
x1988.4[&] *12*	0.08[&] *4*					
1995.5[&h] *12*	0.27[&] *13*	3780		1784.2	2^+	
x1995.8[&] *12*	0.10[&] *9*					
x2002.5 *12*	0.41 *10*					
2008.0[h] *12*	0.43 *11*	4005	(4^+)	1997.4	4^+	
2041[h] *2*	0.30 *8*	3744.3	1	1704.3	1^+	
x2049.5 *12*	0.17 *6*					
x2055[#] *2*	0.27[#] *7*					
2092.1[#] *12*	1.1[#] *3*	3775.7	5^-	1683.8	4^+	
x2127 *2*	0.20 *6*					
2149[#] *2*	0.11[#] *5*	2148.5	2^+	0.0	0^+	
x2159.6[#] *12*	0.29[#] *6*					
x2165[@] *2*	0.13[@] *6*					
x2181.6 *13*	0.36 *15*					
x2185.7[#] *13*	0.36[#] *15*					

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^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11 (continued)

γ(^{206}Pb) (continued)

E_γ †	I_γ †	E_i(level)	J_i^π	E_f	J_f^π
x2208.2 13	0.18 12				
x2219.4 13	0.38 10				
2235#h 2	0.34# 14	4469.3		2235.7	
x2256& 2	0.32& 10				
x2268.7 13	0.35 20				
x2300& 2	0.34& 14				
2305h 2	0.51 14	3989		1683.8	4^+
2314h 2	0.50 13	3780		1466.6	2^+
2317.8 12	1.01 13	3120.9	(3^+)	803.1	2^+
x2324& 2	0.36& 14				
x2333& 2	0.42& 14				
x2347# 2	0.30# 15				
x2355 2	0.45 15				
x2370 2	0.30 12				
x2380# 2	0.23# 10				
2385h 2	0.14 9	4697		2313.8	0^+
x2390# 2	0.28# 13				
x2394 2	0.26 13				
x2411# 3	0.32# 9				
x2415 3	0.32 9				
x2424& 3	0.14& 6				
x2433& 3	0.10& 5				
x2438& 3	0.14& 7				
2460@h 3	0.31@ 15	4657		2196.3	$(3)^+$
x2488 3	0.39 13				
2495#h 3	0.10# 7	4730		2235.7	
2503#h 3	0.29# 7	4187		1683.8	4^+
x2518# 3	0.34# 7				
x2539# 3	0.36# 12				
x2546# 3	0.37# 12				
x2565# 3	0.37# 13				
2583#h 3	0.51# 20	4730		2148.5	2^+
2605h 3	0.21 13	3944		1340.3	3^+
x2619& 3	0.8& 5				
2627gh 3	0.19g 14	4330.7	1^-	1704.3	1^+
2627gh 3	0.19g 14	4410		1784.2	2^+
x2632 3	0.57 12				
x2641.4 14	0.75 20				
2650.4 14	2.67 25	3453.5	4^+	803.1	2^+
x2660 3	0.27 12				
x2664 3	0.28 12				
x2672 3	0.29 15				
x2676& 3	0.60& 15				
2681& 3	1.34& 20	3484.3		803.1	2^+
x2685& 3	0.40& 20				
2701h 3	0.15 10	4385	(5^-)	1683.8	4^+

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^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11 (continued)

γ(^{206}Pb) (continued)

E_γ †	I_γ †	E_i(level)	J_i^π	E_f	J_f^π
2713& 3	0.68& 13	3516	(4+)	803.1	2+
2717&h 3	0.45& 15	4420		1704.3	1+
x2738 3	0.26 6				
x2761 3	0.16 9				
x2764.6 14	0.83 15				
2775.0#h 14	0.61# 14	4116.7	2+	1340.3	3+
x2803& 3	0.38& 8				
x2808& 3	0.19& 8				
x2825# 3	0.25# 14				
x2834# 3	0.50# 14				
x2844# 3	0.32# 15				
x2860# 3	0.08# 6				
x2870# 3	0.14# 8				
2880h 3	0.16 8	3683		803.1	2+
x2907 3	0.27 9				
x2930 3	0.07 4				
2941&h 3	0.10& 4	3744.3	1	803.1	2+
x2944& 3	0.18& 10				
2977h 3	0.06 4	3780		803.1	2+
x2987 3	0.33 6				
x3009# 3	0.37# 6				
x3064 3	0.13 8				
3079gh 3	0.32g 6	4420		1340.3	3+
3079gh 3	0.32g 6	4782	1	1704.3	1+
x3106b 3					
x3114# 3	0.14#a 10				
3141g#h 3	0.21g# 5	3944		803.1	2+
3141g#h 3	0.21g# 5	4606	1−	1466.6	2+
3168h 3	0.29 4	3971		803.1	2+
3186 3	0.30 7	3989		803.1	2+
3195 3	0.69 7	3195.1	(1,2)	0.0	0+
3207& 3	0.33& 10	4010		803.1	2+
x3211& 3	0.17& 10				
3232 3	0.16 8	4035		803.1	2+
3242 3	0.23 11	4045		803.1	2+
x3252 3	0.09 4				
3263 3	0.22 6	4066	(5)−	803.1	2+
3273 3	0.22 6	4076		803.1	2+
x3285b 3					
x3299& 3	0.29& 14				
3307&h 3	0.30& 15	4648		1340.3	3+
3384# 3	0.17# 7	4187		803.1	2+
x3419 3	0.17 5				
x3448&@ 3	0.17&@ 8				
x3484b 3					
x3497 3	0.14 4				

Continued on next page (footnotes at end of table)

^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11 (continued)

γ(^{206}Pb) (continued)

E_γ †	I_γ †	E_i(level)	J_i^π	E_f	J_f^π
x3522 3	0.23 5				
x3538b 3					
3544 3	0.40 5	4347	6+	803.1	2+
x3578 3	0.34 5				
x3595& 3	0.15& 6				
3607& 3	0.83& 15	4410		803.1	2+
3624h 3	0.39 15	4427		803.1	2+
3631 3	0.22 11	4434.1		803.1	2+
x3644 3	0.09 5				
3656 3	0.06 3	4459	(5−)	803.1	2+
x3686b 3					
3709 3	0.10 5	4512		803.1	2+
x3712b 3					
3722 3	0.24 4	4525		803.1	2+
3744.3 17	0.63 6	3744.3	1	0.0	0+
3854# 3	0.23# 4	4657		803.1	2+
3872# 3	0.10# 2	4675		803.1	2+
3894 3	0.14 3	4697		803.1	2+
3927# 3	0.23# 8	4730		803.1	2+
3953& 3	0.17& 5	4756		803.1	2+
3963& 3	0.07& 4	3963	4+	0.0	0+
3971& 3	0.16& 5	3971		0.0	0+
3992& 3	0.13& 9	4795	5−	803.1	2+
3997& 3	0.13& 9	3997		0.0	0+
x4004b 3					
4051 3	0.08 4	4051		0.0	0+
4111bh 3		4914	(3−)	803.1	2+
4116.7 18	0.86 7	4116.7	2+	0.0	0+
4163bh 3		4966	(3−)	803.1	2+
4212 3	0.11 3	4212		0.0	0+
4286b 3		5089	3+	803.1	2+
4330.7 19	0.29 4	4330.7	1−	0.0	0+
4340 3	0.13 5	4340	4+	0.0	0+
x4356b 3					
4420 4	0.08 3	4420		0.0	0+
4434 4	0.10 5	4434.1		0.0	0+
4469.2 19	0.13 3	4469.3		0.0	0+
4473b 4		5276	(1−)	803.1	2+
4482.9 19	0.24 5	4483.0		0.0	0+
4576b 4		5379	1	803.1	2+
x4599b 4					
4606 4	0.08 3	4606	1−	0.0	0+
4612bh 4		5415	(4+)	803.1	2+
x4631b 4					
4648 4	0.08 4	4648		0.0	0+
4717 4	0.04 2	4717		0.0	0+
4763 4	0.06 3	4763		0.0	0+
4782 4	0.06 3	4782	1	0.0	0+

Continued on next page (footnotes at end of table)

^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11 (continued)

γ(^{206}Pb) (continued)

E_γ †	E_i(level)	J_i^π	E_f	J_f^π	E_γ †	E_i(level)	J_i^π	E_f	J_f^π
4799[b] 4	5602	(2+)	803.1	2+	x5326[b]				
x4824[b] 4					5350[bh] 4	5350		0.0	0+
4848[b] 4	4848		0.0	0+	x5385[b] 4				
4938[b] 4	5741		803.1	2+	5390[b] 4	5390		0.0	0+
x4960[b] 4					x5409[b]				
4972[fbh] 4	4972	1−	0.0	0+	5513[bh] 4	5513		0.0	0+
4972[fbh] 4	5775	(1−)	803.1	2+	5522[bh] 4	5522	1	0.0	0+
x4985[b] 4					5580[b] 4	5580	1−	0.0	0+
5029[bh] 4	5832		803.1	2+	x5589[b] 4				
5042[bh]	5042	1−	0.0	0+	5618[b] 4	5618	1−	0.0	0+
5180[b] 4	5180		0.0	0+	5840[b] 4	5840	1−	0.0	0+
5195[b] 4	5195	(2+,3+)	0.0	0+	5936[bh] 4	5936		0.0	0+
5236[bh]	5236		0.0	0+	5994[b] 4	5994		0.0	0+
5247[bh] 4	5247	2+	0.0	0+	6197[b] 4	6197		0.0	0+
5282[bh] 4	5282		0.0	0+	6236[bh] 4	6236		0.0	0+
x5300[b]					6251[b] 4	6251		0.0	0+
5315[b] 4	5315	(2+)	0.0	0+	6260[b] 4	6260		0.0	0+

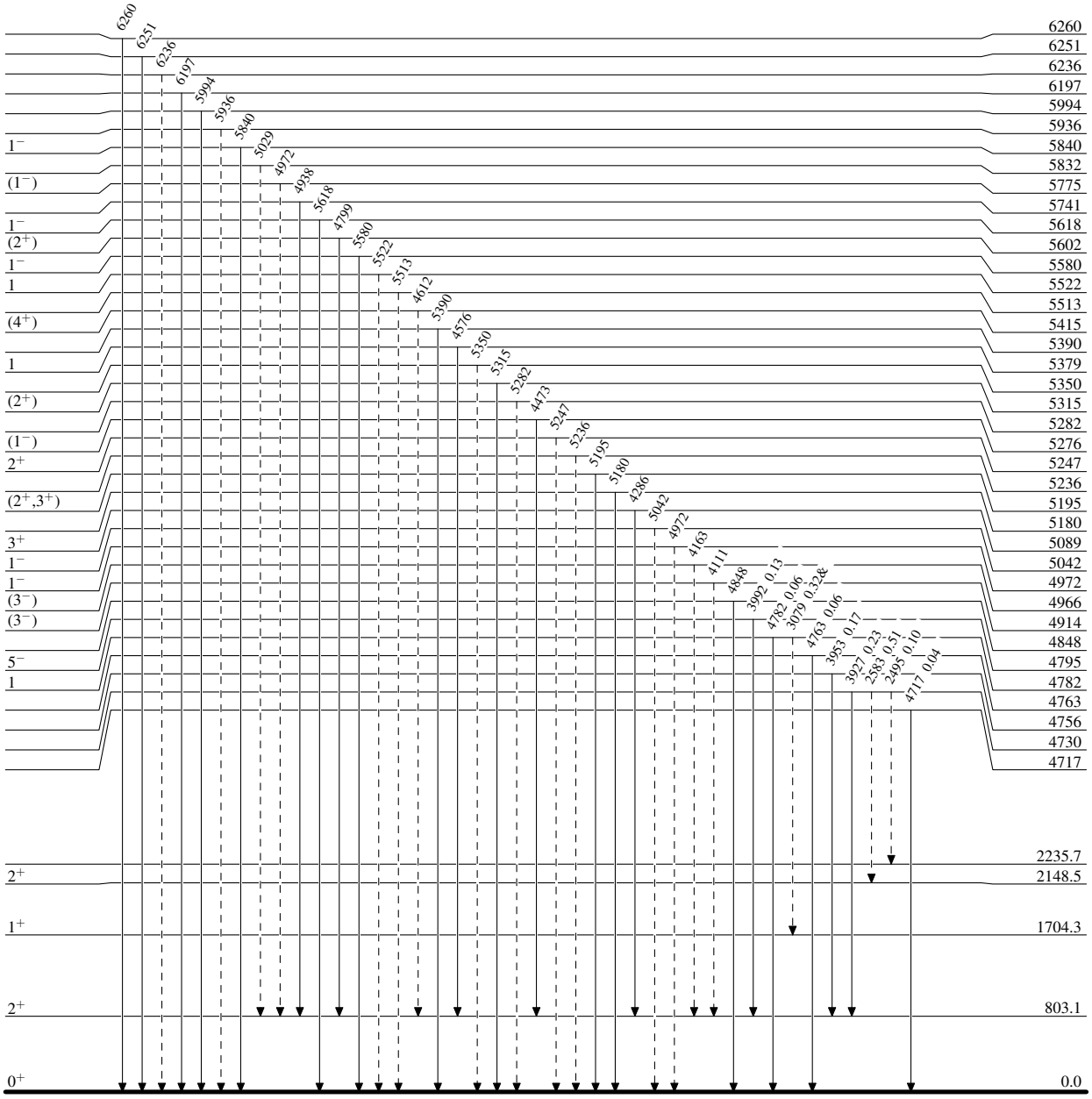
† From 1982DiZT [E(n)=4.8 MeV], unless otherwise stated.
‡ From adopted gammas. Transition observed only in 2015Ne11.
# Broad peak. Possibly a doublet.
@ Probably a contaminant from another reaction.
& Data estimated from a broad peak.
a Probably an escape peak from a higher energy γ.
b From 1982DiZT, but only observed with E(n)>5 MeV.
c Placement in the author′s table is from the 4459-keV level, but placement from the 4434-keV level is given in the figure.
d Placement from adopted gammas.
e From 1989BeYQ.
f Multiply placed.
g Multiply placed with undivided intensity.
h Placement of transition in the level scheme is uncertain.
x γ ray not placed in level scheme.

^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11

Level Scheme

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)



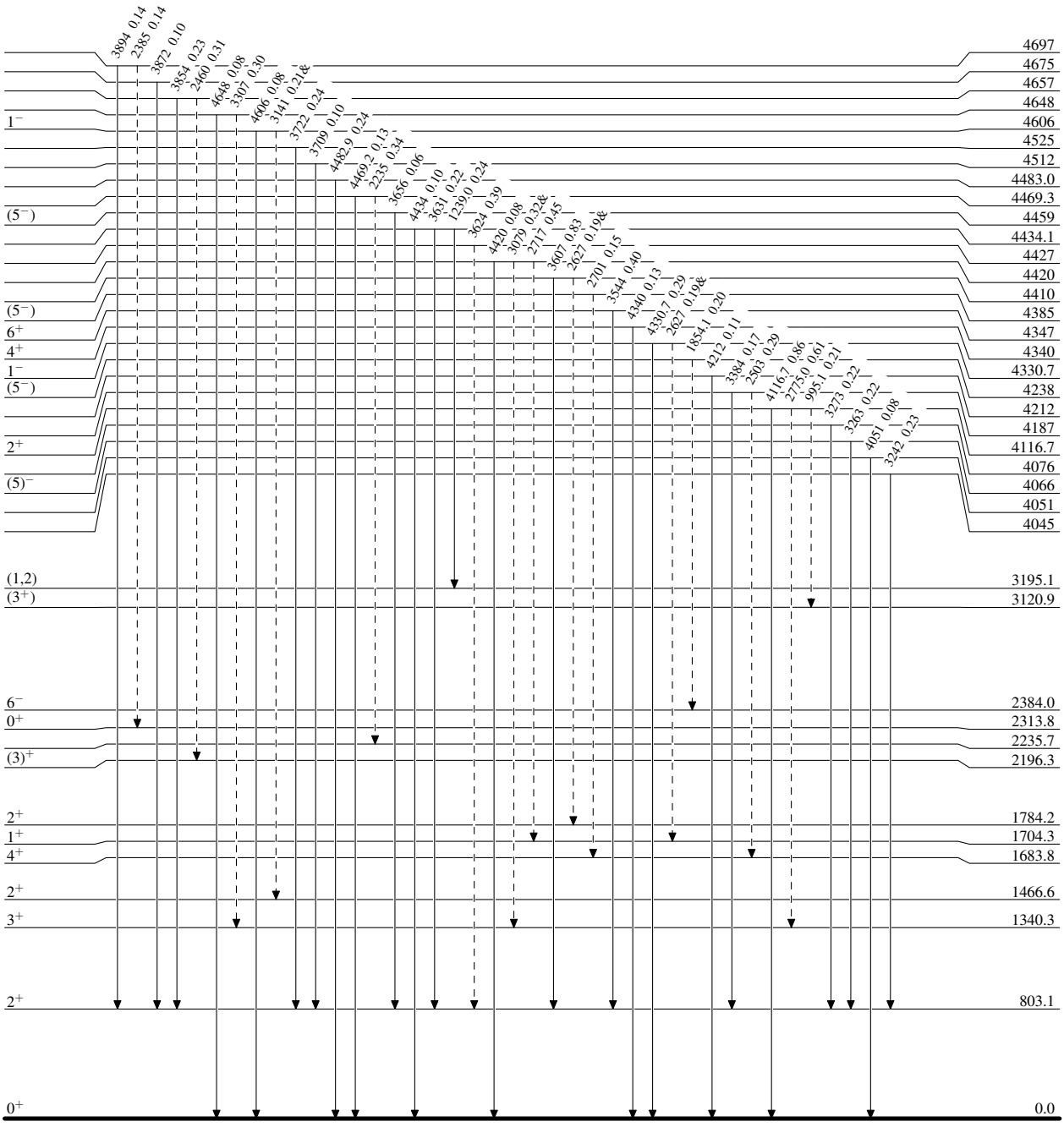
$^{206}_{82}Pb_{124}$

^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



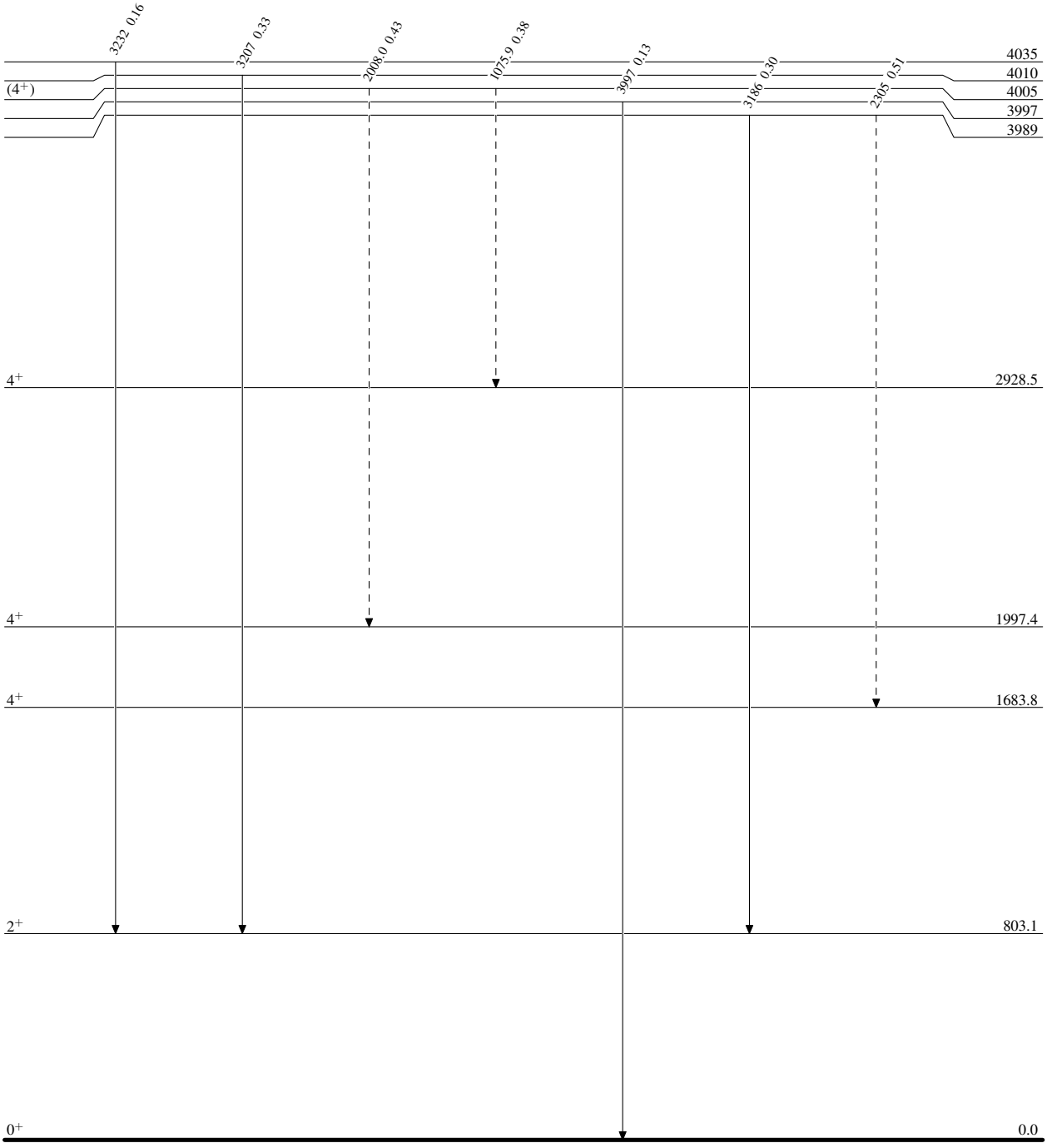
$^{206}_{82}Pb_{124}$

^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



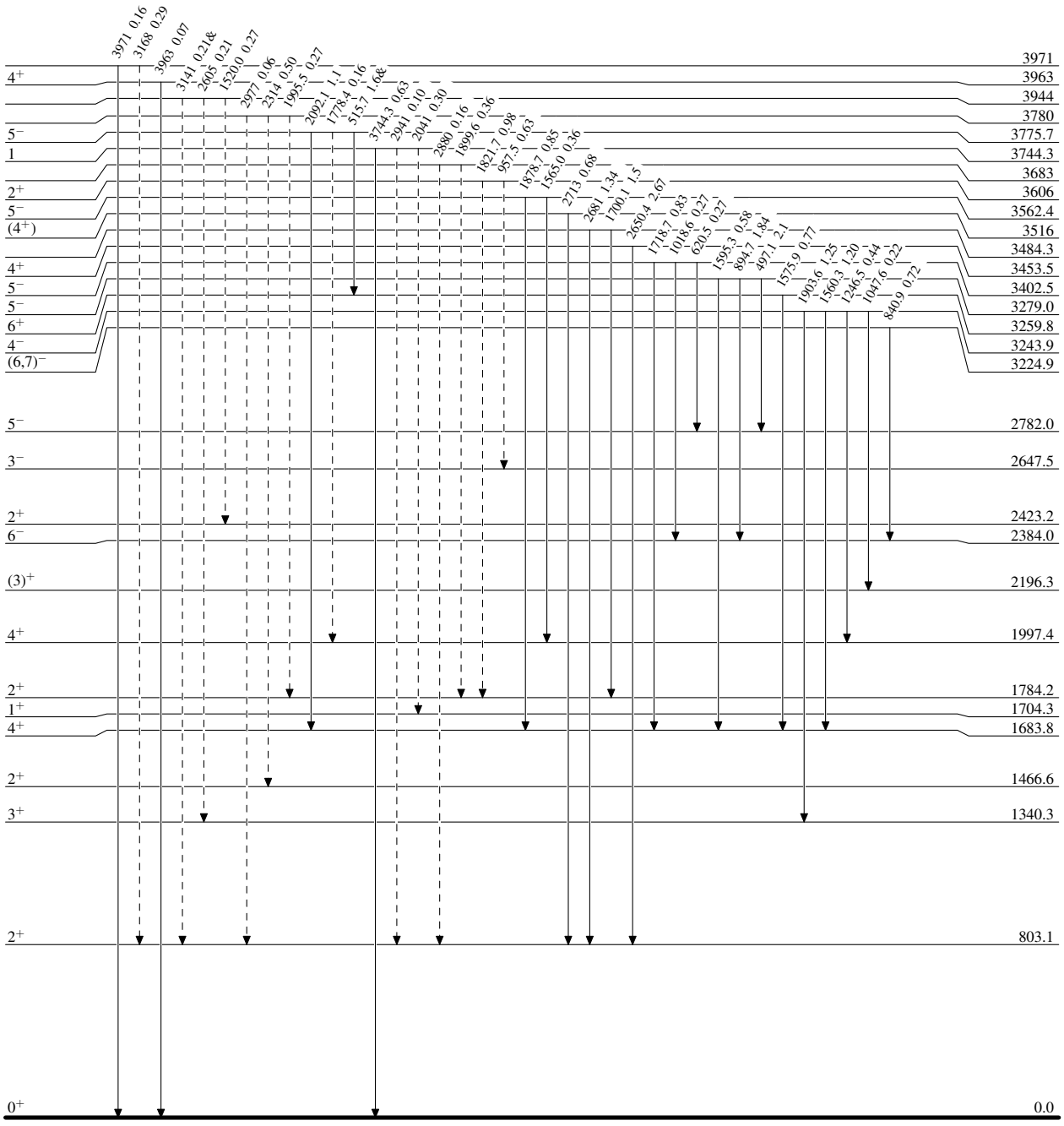
$^{206}_{82}Pb_{124}$

^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



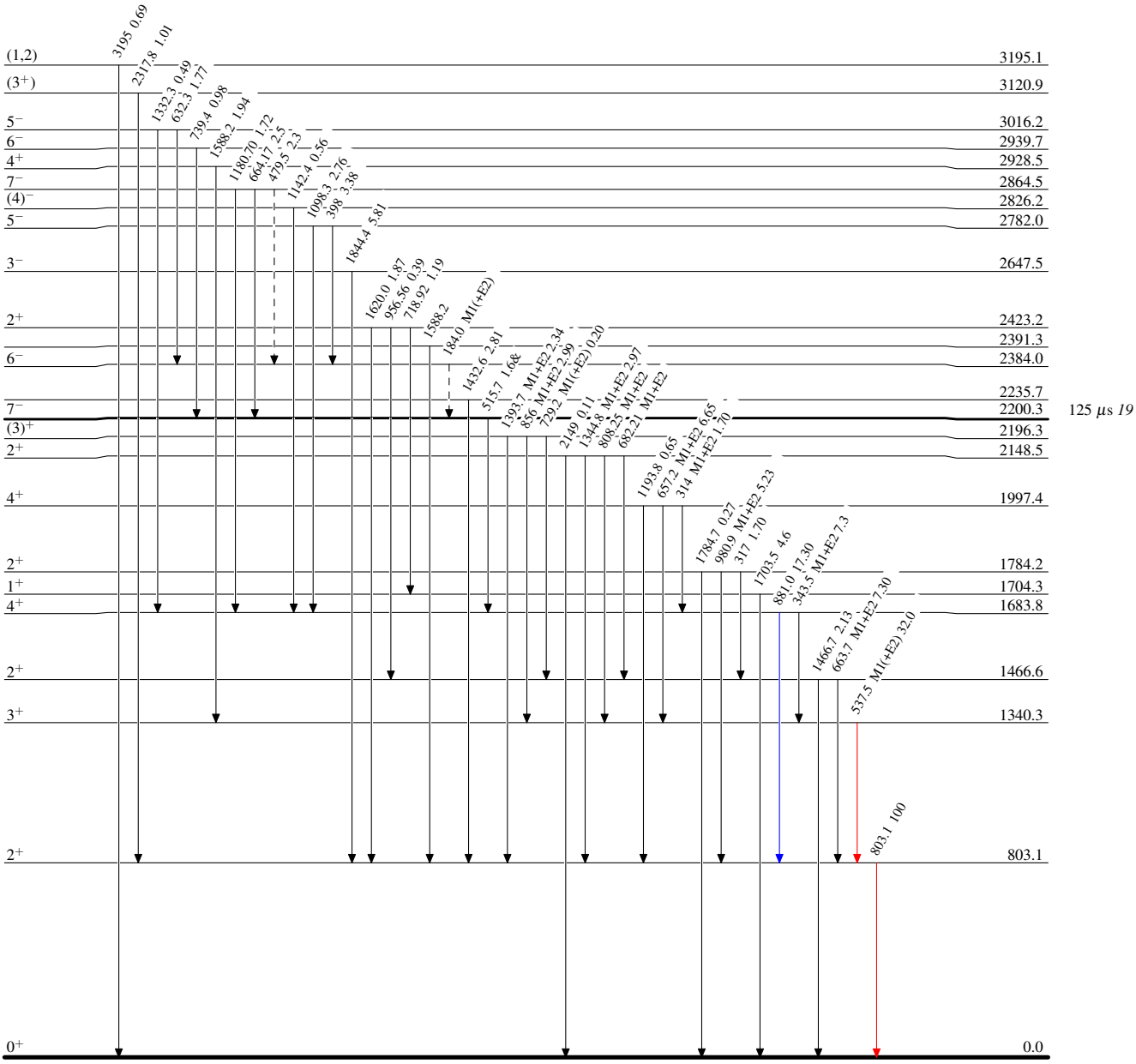
$^{206}_{82}Pb_{124}$

^{206}Pb(n,n′γ) 1982DiZT,1983Di07,2015Ne11

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{206}_{82}Pb_{124}$