

²⁰⁶Pb(γ, γ') **2018Sh40,2003En07,1986Ra01**

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

2018Sh40: E=10.5 MeV bremsstrahlung at γ ELBE, Rossendorf. Target was 3.94 g of enriched ²⁰⁶Pb in two metallic disks with a diameter of 20 mm and tilted by 45° relative to beam direction. Measured E γ , I γ , $\gamma(\theta)$ using four HPGe detectors surrounded by BGO shields.

2003En07: E=6.70 MeV bremsstrahlung at S-DALINAC, Darmstadt. Target was 7.0656 g of enriched [88.3% 8] ²⁰⁶Pb.

Measured E γ , I γ and $\gamma(\theta)$ using two Euroball-Cluster detectors each comprised of 7 HPGe crystals and surrounded by 30 cm of lead in each direction; One of the detectors was equipped with a BGO shield. Others: **2000En10**, **1999EnZY**.

1986Ra01: E=7 MeV bremsstrahlung and 10 and 12 MeV bremsstrahlung with linear polarization; Measured: E γ , I γ , $\gamma(\theta)$.

Others: **1980Ch22**, **1971Me11**, **1974Sw05** and **1977Co10** for data on specific levels and **1979La01**, **1985La02**, **1986Na13**, **1999Oh05** and **1993A113** for scattering data.

²⁰⁶Pb Levels

E(level) [†]	J π [†]	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV) [†]	Comments
0.0	0 ⁺		
803.043 25	2 ⁺		E(level),J π : From Adopted Levels.
1166.4 3	0 ⁺		E(level),J π : From Adopted Levels.
1466.80 3	2 ⁺		E(level),J π : From Adopted Levels.
1704.45 3	1 ⁺		E(level),J π : From Adopted Levels.
1784.07 5	2 ⁺		E(level),J π : From Adopted Levels.
3742.74 20	1	0.13 2	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.09 1 (2003En07), 0.13 2 (1974Sw05).
4115.24 10	2 ⁺ @	0.21 2	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.29 3 (2003En07), 0.58 15 (1980Ch22), 0.30 6 (1974Sw05).
4146.1 7	1	0.05 2	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.03 2 (2003En07).
4328.05 10	1 ⁻ @	0.33 3	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.33 4 (2003En07), 0.48 11 (1980Ch22), 0.90 9 (1974Sw05).
4483.6 [‡] 5	2 ⁺ [‡]	0.02 [‡] 1	
4603.86 10	1 ⁻ @	0.30 3	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.25 3 (2003En07), 0.58 16 (1980Ch22), 0.23 3 (1974Sw05).
4690.76 20	1	0.13 2	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.08 2 (2003En07).
4778.3 5	1	0.48 12	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.20 14 (2003En07).
4805.3 3	1	0.06 1	
4932.7 3	2	0.07 1	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.04 1 (2003En07).
4971.16 10	1 ⁻ @	0.71 5	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.70 7 (2003En07), 0.95 23 (1980Ch22), 0.8 2 (1974Sw05), 0.8 3 (1977Co10).
5037.87 10	1 ⁻ @	2.33 16	E(level): 5083 keV 1 in 1986Ra01 seems a typo. $\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 2.12 21 (2003En07), 2.6 4 (1980Ch22), 2.3 5 (1974Sw05), 1.6 6 (1977Co10).
5127.67 20	1	0.23 3	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.23 3 (2003En07).
5377.3 3	1	0.23 5	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.28 4 (2003En07).
5408.5 [‡] 5	(1) [‡]	0.09 [‡] 2	
5459.1 5	1	0.14 3	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.09 2 (2003En07).
5470.28 10	1 ⁽⁻⁾ @	0.49 4	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.58 7 (2003En07), 0.7 2 (1980Ch22).
5524.58 20	1	0.56 6	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.40 5 (2003En07).
5579.98 10	1 ⁻ @	1.23 9	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 1.47 17 (2003En07), 1.7 3 (1980Ch22), 0.5 (1977Co10).
5615.28 10	1 ⁻ @	1.77 12	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 2.02 23 (2003En07), 1.8 4 (1980Ch22), 1.0 (1977Co10).
5692.98 10	1 ⁻ @	0.88 7	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.95 14 (2003En07), 0.8 2 (1980Ch22), 0.5 (1977Co10).
5721.8 6	1	0.19 5	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.19 3 (2003En07).
5732.09 10	1 ⁻ @	0.99 12	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 1.4 3 (2003En07), 1.3 3 (1980Ch22).
5761.39 10	1 ⁺	0.72 6	J π : From 1993A113 using linear-polarized beams. $\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 0.68 9 (2003En07), 0.9 2 (1980Ch22).
5799.39 10	1 ⁺ @	2.16 16	$\Gamma_{\gamma 0}^2/\Gamma_{\gamma}$ (eV): Other: 1.68 20 (2003En07), 1.1 3 (1980Ch22), 1.0 (1977Co10).

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²⁰⁶Pb(γ,γ') **2018Sh40,2003En07,1986Ra01 (continued)**

²⁰⁶Pb Levels (continued)

E(level) [†]	J ^π [†]	Γ _{γ0} ² /Γ _γ (eV) [†]	Comments
			0.48 8 (1993A113).
5818.4 3	1 ^{-@}	0.18 4	Γ _{γ0} ² /Γ _γ (eV): Other: 0.25 4 (2003En07), 0.5 2 (1980Ch22).
5845.89 10	1 ^{-@}	0.99 8	Γ _{γ0} ² /Γ _γ (eV): Other: 1.15 21 (2003En07), 1.1 2 (1980Ch22).
5857.09 10	1 ^{-@}	1.79 13	Γ _{γ0} ² /Γ _γ (eV): Other: 2.17 27 (2003En07), 2.0 4 (1980Ch22).
5902.56 10	1 ^{-@}	2.88 20	Γ _{γ0} ² /Γ _γ (eV): Other: 3.5 4 (2003En07), 3.0 6 (1980Ch22).
5951.5 6	1	0.13 5	Γ _{γ0} ² /Γ _γ (eV): Other: 0.13 5 (2003En07).
5959.5 6	1	0.53 14	Γ _{γ0} ² /Γ _γ (eV): Other: 0.34 6 (2003En07).
5999.5 6	1	0.18 4	Γ _{γ0} ² /Γ _γ (eV): Other: 0.09 5 (2003En07).
6019.79 20	1	0.73 6	Γ _{γ0} ² /Γ _γ (eV): Other: 0.66 9 (2003En07).
6100.4 6	1	0.24 5	Γ _{γ0} ² /Γ _γ (eV): Other: 0.32 7 (2003En07).
6110.8 [‡] 10	(1,2) [‡]	0.12 [‡] 4	
6149.2 5	1	0.16 4	
6185.9 6	2	0.16 2	
6200.1 8	1 ⁺	0.20 5	J ^π : From 1993A113 using linear-polarized beams.
			Γ _{γ0} ² /Γ _γ (eV): Other: 0.21 4 (2003En07), 0.29 3 (1993A113).
6409.21 20	1	0.96 9	Γ _{γ0} ² /Γ _γ (eV): Other: 0.65 15 (2003En07).
6419.91 20	1	0.82 7	Γ _{γ0} ² /Γ _γ (eV): Other: 0.40 10 (2003En07).
6432.6 3	1	0.58 6	Γ _{γ0} ² /Γ _γ (eV): Other: 0.35 10 (2003En07).
6442.7 5	1	0.38 5	Γ _{γ0} ² /Γ _γ (eV): Other: 0.22 9 (2003En07).
6458.9 6	1	0.36 8	
6467.91 20	1	0.76 9	Γ _{γ0} ² /Γ _γ (eV): Other: 0.46 42 (2003En07).
6508.71 10	1 ^{-@}	1.79 14	Γ _{γ0} ² /Γ _γ (eV): Other: 0.24 20 (2003En07), 1.9 4 (1980Ch22).
6531.41 20	1	0.34 5	
6620 [#]	1 ^{+#}	0.44 [#] 9	
6692.0 3	1	0.37 5	
6723.62 10	1 ^{-@}	3.12 22	Γ _{γ0} ² /Γ _γ (eV): Other: 3.4 6 (1980Ch22).
6819.82 10	1 ^{-@}	3.9 3	Γ _{γ0} ² /Γ _γ (eV): Other: 4.7 9 (1980Ch22).
6850 [#]	1 ^{+#}	0.9 [#] 4	
6933.93 10	1	1.65 13	
7061.63 10	1 ^(-@)	3.1 3	Γ _{γ0} ² /Γ _γ (eV): Other: 2.5 6 (1980Ch22).
7077.73 20	1	1.83 19	Γ _{γ0} ² /Γ _γ (eV): Other: 0.9 3 (1980Ch22).
7128.33 20	(1 ⁻) [@]	1.20 12	Γ _{γ0} ² /Γ _γ (eV): Other: 1.0 2 (1980Ch22).
7158.6 5	1	0.79 11	
7181.2 4	1	0.85 10	
7199.9 3	1	1.61 15	E(level),Γ _{γ0} ² /Γ _γ (eV): Other: 7202 keV 2 and Γ _{γ0} ² /Γ _γ =1.8 4 (1980Ch22).
7238.8 6	1	0.57 10	
7258.7 4	1	0.90 11	
7302.7 3	1	1.90 18	E(level),Γ _{γ0} ² /Γ _γ (eV): Other: 7310 keV and Γ _{γ0} ² /Γ _γ =1.8 4 (1980Ch22) for both the 7302.6- and 7312.6-keV levels.
7312.7 3	1	1.89 18	
7338.3 7	1	1.1 4	
7363.0 3	1	0.52 9	
7387.64 20	1	0.87 9	
7404.6 3	1	0.61 7	
7414.2 3	1	0.79 8	
7424.24 20	1	1.32 12	Γ _{γ0} ² /Γ _γ (eV): Other: 1.6 4 (1980Ch22).
7464.9 5	1	2.2 5	Γ _{γ0} ² /Γ _γ (eV): Other: 0.9 4 (1980Ch22).
7486.25 20	(1 ⁻) [@]	1.91 17	Γ _{γ0} ² /Γ _γ (eV): Other: 1.7 4 (1980Ch22).
7506.05 10	1	2.00 16	Γ _{γ0} ² /Γ _γ (eV): Other: 1.2 4 (1980Ch22).
7543.05 10	1	3.28 24	Γ _{γ0} ² /Γ _γ (eV): Other: 2.3 6 (1980Ch22).
7556.5 4	1	0.48 7	

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²⁰⁶Pb(γ,γ') **2018Sh40,2003En07,1986Ra01 (continued)**

²⁰⁶Pb Levels (continued)

E(level) [†]	J ^π [†]	Γ _{γ0} ² /Γ _γ (eV) [†]	Comments
7571.5 3	1	0.65 9	Γ _{γ0} ² /Γ _γ (eV): Other: 1.1 5 (1980Ch22).
7597.5 14	1	0.27 8	
7627.8 5	1	0.53 13	
7646.1 3	1	0.31 7	
7669.9 3	1	0.50 9	
7715.7 4	1	1.10 16	
7781.3 3	1	0.68 12	
7798.6 7	1	0.58 13	
7815.6 3	1	1.60 20	Γ _{γ0} ² /Γ _γ (eV): Other: 0.8 2 (1980Ch22).
7845.7 3	1	1.83 22	Γ _{γ0} ² /Γ _γ (eV): Other: 1.9 4 (1980Ch22).
7881.3 3	1	1.46 13	Γ _{γ0} ² /Γ _γ (eV): Other: 1.1 3 (1980Ch22).
7891.36 20	1	1.95 16	Γ _{γ0} ² /Γ _γ (eV): Other: 1.6 4 (1980Ch22).
7904.46 20	1	2.47 20	Γ _{γ0} ² /Γ _γ (eV): Other: 2.2 5 (1980Ch22).
7930.5 7	1	0.43 11	
7944.9 4	1	0.75 12	
7972 4	1	1.0 3	E(level),J ^π ,Γ _{γ0} ² /Γ _γ (eV): From 1980Ch22.
8001.8 3	1	2.6 3	Γ _{γ0} ² /Γ _γ (eV): Other: 1.6 4 (1980Ch22).
8046.7 4	1	0.79 17	E(level),Γ _{γ0} ² /Γ _γ (eV): Other:8040 keV and Γ _{γ0} ² /Γ _γ =0.27 9 (1980Ch22).
8080.0 7	1	0.41 9	
8118.7 4	1	0.37 8	

[†] From 2018Sh40, unless otherwise stated. Uncertainty in Γ_{γ0}²/Γ_γ included statistical and systematic components, but feeding from secondary transitions is not taken into consideration.

[‡] From 2003En07.

From 1993A113 using linear-polarized beams.

@ From 1986Ra01 using linear-polarized beams.

γ(²⁰⁶Pb)

E _i (level)	J _i ^π	E _γ [†]	I _γ	E _f	J _f ^π	Comments
3742.74	1	3742.7 2	100	0.0	0 ⁺	W(90°)/W(127°)=0.35 14 (2018Sh40).
4115.24	2 ⁺	4115.2 1	100	0.0	0 ⁺	W(90°)/W(127°)=2.09 20.
4146.1	1	4146.1 7	100	0.0	0 ⁺	W(90°)/W(127°)=1.3 3.
4328.05	1 ⁻	4328.0 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.66 11.
4483.6	2 ⁺	4483.5 [‡] 5	100	0.0	0 ⁺	
4603.86	1 ⁻	4603.8 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.63 15.
4690.76	1	4690.7 2	100	0.0	0 ⁺	W(90°)/W(127°)=0.8 3.
4778.3	1	4778.2 5	85 6	0.0	0 ⁺	W(90°)/W(127°)=0.83 11.
4805.3	1	4805.2 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.8 4.
4932.7	2	4932.6 3	100	0.0	0 ⁺	W(90°)/W(127°)=3.0 9.
4971.16	1 ⁻	4971.1 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.93 15.
5037.87	1 ⁻	5037.8 1	92 5	0.0	0 ⁺	W(90°)/W(127°)=0.79 7.
5127.67	1	5127.6 2	100	0.0	0 ⁺	W(90°)/W(127°)=0.86 19.
5377.3	1	5377.2 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.92 21.
5408.5	(1)	5408.4 [‡] 5	100	0.0	0 ⁺	
5459.1	1	5459.0 5	48 10	0.0	0 ⁺	W(90°)/W(127°)=0.61 23.
5470.28	1 ⁽⁻⁾	5470.2 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.82 12.
5524.58	1	5524.5 2	100	0.0	0 ⁺	W(90°)/W(127°)=0.88 11.
5579.98	1 ⁻	5579.9 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.87 9.

E_γ: Other: 5581.1 keV 3 (2003En07). Possible branch to the first excited 2⁺ state coincides with 4778.2γ.

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$^{206}\text{Pb}(\gamma, \gamma')$ 2018Sh40,2003En07,1986Ra01 (continued) $\gamma(^{206}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ	E_f	J_f^π	Comments
5615.28	1 ⁻	5615.2 1	91 5	0.0	0 ⁺	W(90°)/W(127°)=0.81 7.
5692.98	1 ⁻	5692.9 1	100	0.0	0 ⁺	E_γ : Other: 5694.1 keV 4 (2003En07). W(90°)/W(127°)=0.81 11.
5721.8	1	5721.7 6	57 8	0.0	0 ⁺	W(90°)/W(127°)=0.71 24.
5732.09	1 ⁻	5732.0 1	100	0.0	0 ⁺	E_γ : Other: 5733.3 keV 4 (2003En07). W(90°)/W(127°)=0.70 7.
5761.39	1 ⁺	5761.3 1	100	0.0	0 ⁺	E_γ : Other: 5762.6 keV 4 (2003En07). W(90°)/W(127°)=0.73 12.
5799.39	1 ⁺	5799.3 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.86 9.
5818.4	1 ⁻	5818.3 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.84 24.
5845.89	1 ⁻	5845.8 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.89 10.
5857.09	1 ⁻	5857.0 1	100	0.0	0 ⁺	E_γ : Other: 5858.2 keV 4 (2003En07). W(90°)/W(127°)=0.85 8.
5902.56	1 ⁻	5902.4 1	100	0.0	0 ⁺	E_γ : Other: 5903.6 keV 4 (2003En07). W(90°)/W(127°)=0.77 6.
5951.5	1	5951.4 6	100	0.0	0 ⁺	W(90°)/W(127°)=0.54 24.
5959.5	1	5959.4 6	100	0.0	0 ⁺	W(90°)/W(127°)=1.06 11.
5999.5	1	5999.4 6	100	0.0	0 ⁺	W(90°)/W(127°)=1.00 16.
6019.79	1	6019.7 2	100	0.0	0 ⁺	E_γ : Other: 6021.5 keV 5 (2003En07). W(90°)/W(127°)=1.07 14.
6100.4	1	6100.3 6	100	0.0	0 ⁺	W(90°)/W(127°)=1.33 16.
6110.8	(1,2)	6110.7 [±] 10	100	0.0	0 ⁺	
6149.2	1	6149.1 5	100	0.0	0 ⁺	W(90°)/W(127°)=0.7 3.
6185.9	2	6185.8 6	100	0.0	0 ⁺	W(90°)/W(127°)=2.1 5.
6200.1	1 ⁺	6200.0 8	100	0.0	0 ⁺	W(90°)/W(127°)=1.1 4.
6409.21	1	6409.1 2	100	0.0	0 ⁺	E_γ : Other: 6410.5 keV 6 (2003En07). W(90°)/W(127°)=0.86 11.
6419.91	1	6419.8 2	100	0.0	0 ⁺	E_γ : Other: 6418.8 keV 8 (2003En07). W(90°)/W(127°)=0.89 13.
6432.6	1	6432.5 3	100	0.0	0 ⁺	E_γ : Other: 6433.7 keV 7 (2003En07). W(90°)/W(127°)=0.98 18.
6442.7	1	6442.6 5	100	0.0	0 ⁺	W(90°)/W(127°)=0.79 22.
6458.9	1	6458.8 6	100	0.0	0 ⁺	W(90°)/W(127°)=0.55 14.
6467.91	1	6467.8 2	83 5	0.0	0 ⁺	E_γ : Other: 6469.2 keV 8 (2003En07). W(90°)/W(127°)=0.84 12.
6508.71	1 ⁻	6508.6 1	100	0.0	0 ⁺	E_γ : Other: 6510.6 keV 10 (2003En07). W(90°)/W(127°)=0.87 11.
6531.41	1	6531.3 2	100	0.0	0 ⁺	W(90°)/W(127°)=0.91 16.
6692.0	1	6691.9 3	100	0.0	0 ⁺	W(90°)/W(127°)=1.15 25.
6723.62	1 ⁻	6723.5 1	86 5	0.0	0 ⁺	W(90°)/W(127°)=0.78 7.
6819.82	1 ⁻	6819.7 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.75 6.
6933.93	1	6933.8 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.73 9.
7061.63	1 ⁽⁻⁾	7061.5 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.76 10.
7077.73	1	7077.6 2	74 6	0.0	0 ⁺	E_γ : Transition into the ground state coincides with a possible branch of the state at 7881 keV. W(90°)/W(127°)=0.63 11.
7128.33	(1 ⁻)	7128.2 2	100	0.0	0 ⁺	W(90°)/W(127°)=0.89 15.
7158.6	1	7158.5 5	100	0.0	0 ⁺	W(90°)/W(127°)=0.88 20.
7181.2	1	7181.1 4	100	0.0	0 ⁺	W(90°)/W(127°)=0.72 14.
7199.9	1	7199.8 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.67 10.
7238.8	1	7238.7 6	100	0.0	0 ⁺	W(90°)/W(127°)=0.71 22.
7258.7	1	7258.6 4	100	0.0	0 ⁺	W(90°)/W(127°)=0.85 17.
7302.7	1	7302.6 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.79 12.
7312.7	1	7312.6 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.76 12.
7338.3	1	7338.2 7	100	0.0	0 ⁺	W(90°)/W(127°)=0.9 4.

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$^{206}\text{Pb}(\gamma, \gamma')$ **2018Sh40, 2003En07, 1986Ra01 (continued)** $\gamma(^{206}\text{Pb})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ	E_f	J_f^π	Comments
7363.0	1	7362.9 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.62 18.
7387.64	1	7387.5 2	100	0.0	0 ⁺	W(90°)/W(127°)=0.97 16.
7404.6	1	7404.5 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.92 17.
7414.2	1	7414.1 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.83 14.
7424.24	1	7424.1 2	100	0.0	0 ⁺	W(90°)/W(127°)=1.07 13.
7464.9	1	7464.8 5	100	0.0	0 ⁺	W(90°)/W(127°)=0.8 5.
7486.25	(1 ⁻)	7486.1 2	100	0.0	0 ⁺	W(90°)/W(127°)=0.93 12.
7506.05	1	7505.9 1	66 4	0.0	0 ⁺	W(90°)/W(127°)=0.68 9.
7543.05	1	7542.9 1	100	0.0	0 ⁺	W(90°)/W(127°)=0.86 8.
7556.5	1	7556.4 4	100	0.0	0 ⁺	W(90°)/W(127°)=0.79 25.
7571.5	1	7571.4 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.91 14.
7597.5	1	7597.3 14	100	0.0	0 ⁺	W(90°)/W(127°)=0.91 21.
7627.8	1	7627.6 5	100	0.0	0 ⁺	W(90°)/W(127°)=0.88 13.
7646.1	1	7645.9 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.66 18.
7669.9	1	7669.7 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.7 3.
7715.7	1	7715.5 4	100	0.0	0 ⁺	W(90°)/W(127°)=0.68 19.
7781.3	1	7781.1 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.61 12.
7798.6	1	7798.4 7	100	0.0	0 ⁺	W(90°)/W(127°)=0.59 12.
7815.6	1	7815.4 3	87 5	0.0	0 ⁺	W(90°)/W(127°)=0.79 9.
7845.7	1	7845.5 3	71 7	0.0	0 ⁺	W(90°)/W(127°)=0.84 28.
7881.3	1	7881.1 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.87 10.
						E_γ : Possible branch to the first excited 2 ⁺ state coincides with the transition at 7078 keV.
7891.36	1	7891.2 2	55 4	0.0	0 ⁺	W(90°)/W(127°)=0.76 8.
7904.46	1	7904.3 2	70 4	0.0	0 ⁺	W(90°)/W(127°)=0.74 8.
7930.5	1	7930.3 7	100	0.0	0 ⁺	W(90°)/W(127°)=1.0 3.
7944.9	1	7944.7 4	100	0.0	0 ⁺	W(90°)/W(127°)=0.89 17.
7972	1	7972 4		0.0	0 ⁺	E_γ : From 1980Ch22.
8001.8	1	8001.6 3	100	0.0	0 ⁺	W(90°)/W(127°)=0.74 10.
8046.7	1	8046.5 4	100	0.0	0 ⁺	W(90°)/W(127°)=0.87 8.
8080.0	1	8079.8 7	100	0.0	0 ⁺	W(90°)/W(127°)=0.88 11.
8118.7	1	8118.5 4	100	0.0	0 ⁺	W(90°)/W(127°)=0.82 10.

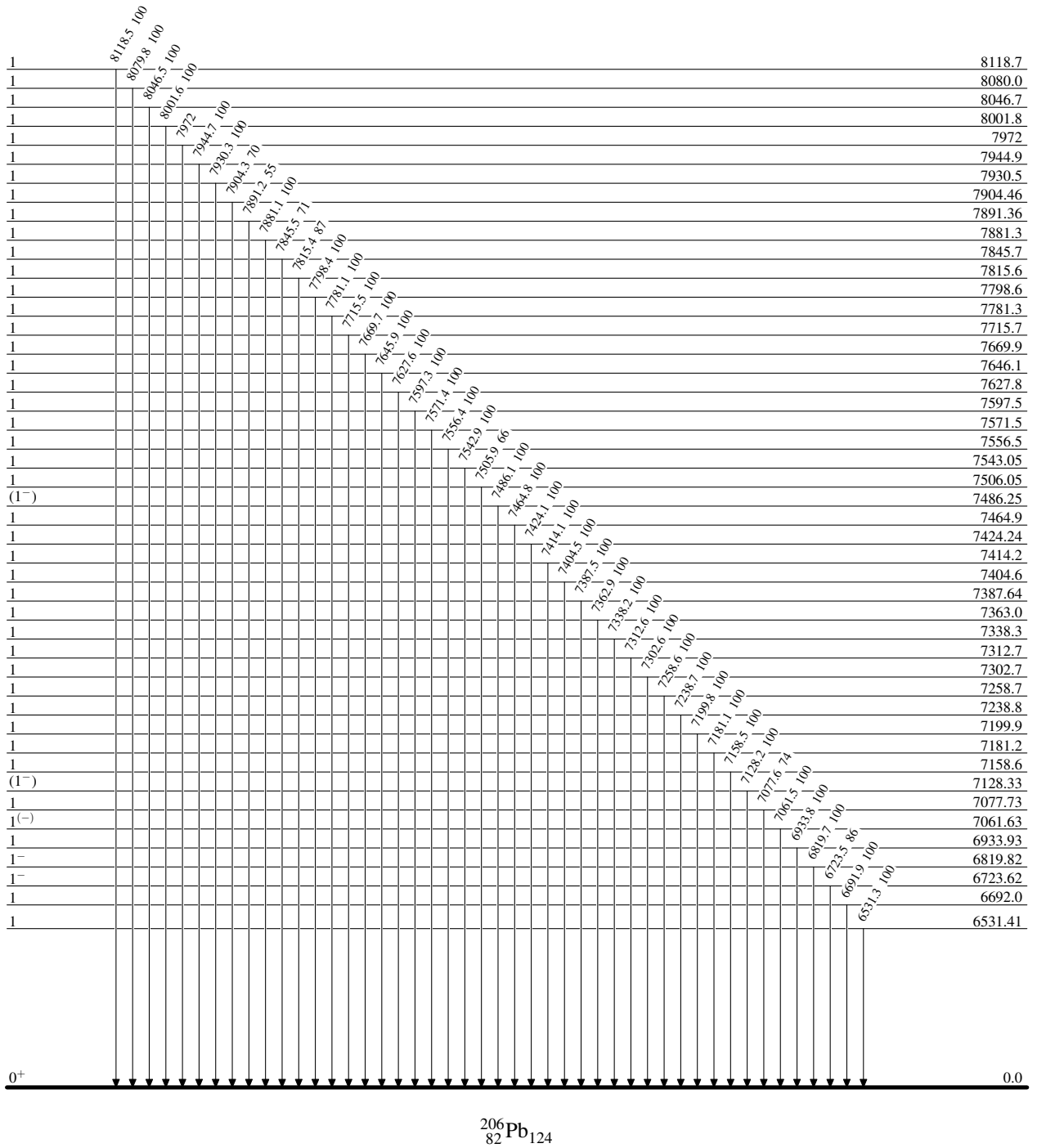
† From 2018Sh40, unless otherwise stated.

‡ From 2003En07.

$^{206}\text{Pb}(\gamma,\gamma)$ 2018Sh40,2003En07,1986Ra01

Level Scheme

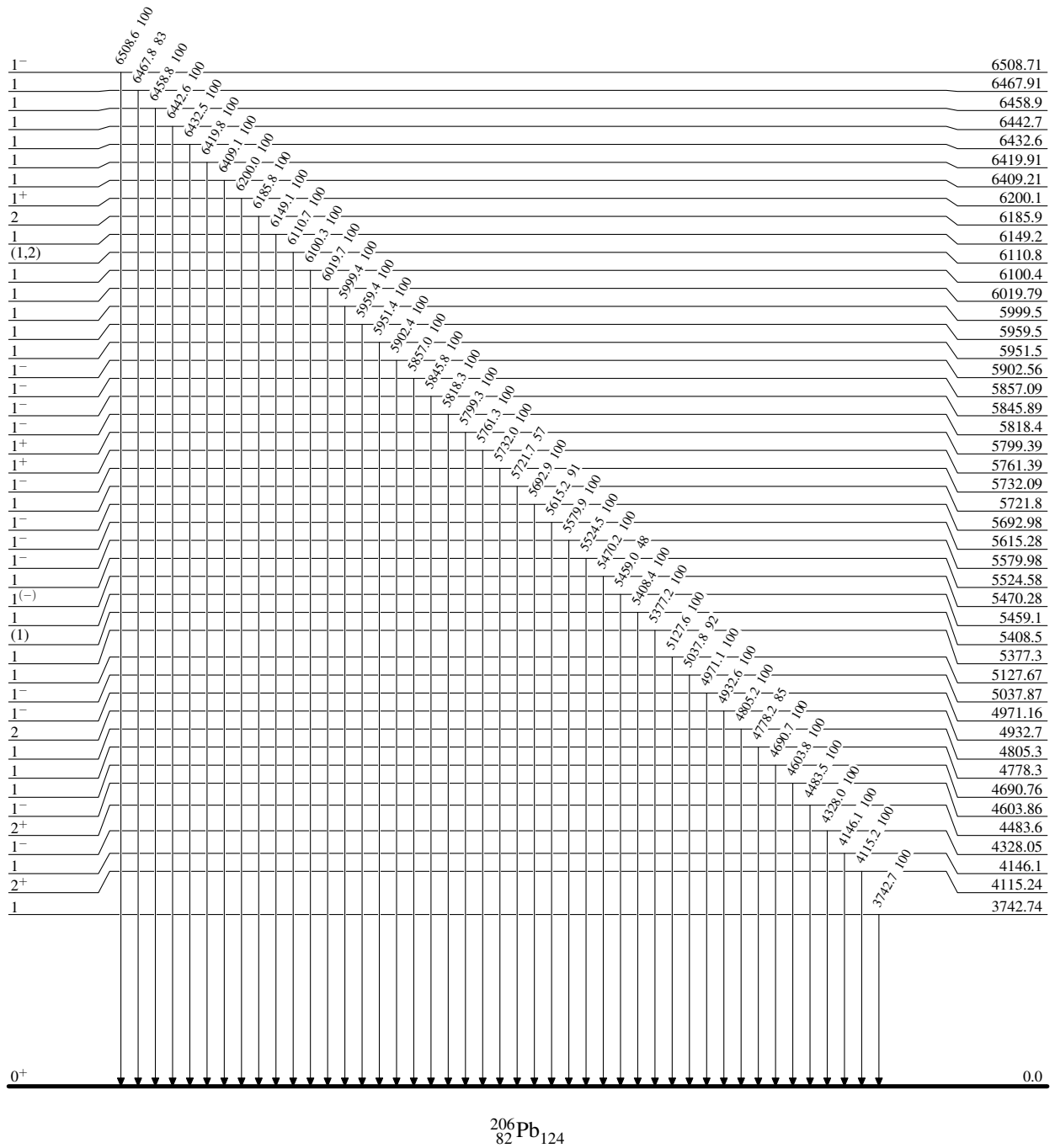
Intensities: % photon branching from each level



$^{206}\text{Pb}(\gamma, \gamma)$ 2018Sh40,2003En07,1986Ra01

Level Scheme (continued)

Intensities: % photon branching from each level

 $^{206}_{82}\text{Pb}_{124}$