

$^{208}\text{Pb}(^{18}\text{O},\text{X}\gamma)$ [2009Po04](#)

Type	Author	Citation	History Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 116, 1 (2014)	31-Dec-2013

E=85 MeV beam provided by the VIVITRON accelerator at Strasbourg. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, $\gamma\gamma(\theta)$ using EUROBALL IV array spectrometer of 15 Cluster Ge detectors, 26 Clovers and 30 tapered single-crystals, cluster containing seven detectors and clover a set of four. Comparisons with shell-model calculations.

 ^{85}Se Levels

$E(\text{level})^\dagger$	$J^\pi \ddagger$
0.0 [#]	$5/2^+$
1113 [#]	$(7/2^+)$
1436.1 [#] 5	$(9/2^+)$
1975.4 [#] 7	$(11/2^+)$
2319.5 8	$(11/2^+)$
2372.7 [#] 8	$(13/2^+)$
3809.8 [#] 9	$(15/2^+)$
4253.6 [#] 12	$(17/2^+)$

[†] From $E\gamma$ data.

[‡] As proposed in [2009Po04](#) based on shell-model predictions.

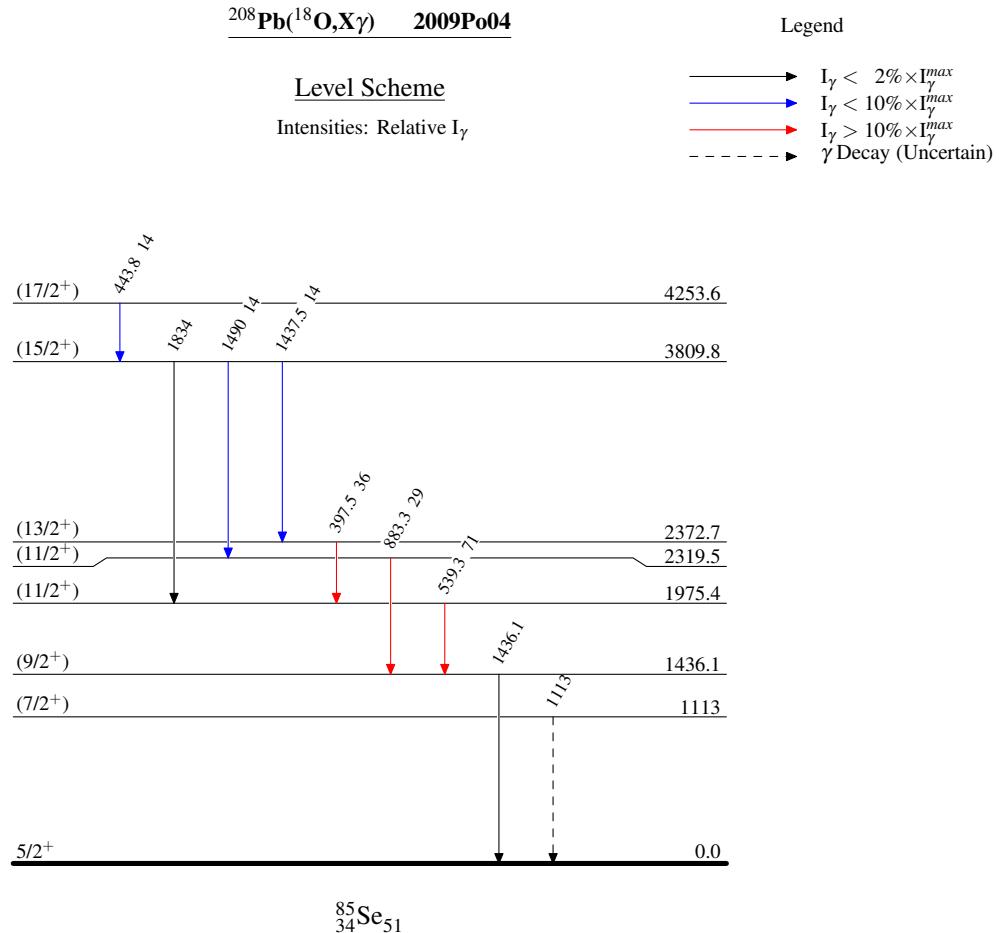
[#] Band(A): Yrast sequence.

 $\gamma(^{85}\text{Se})$

E_γ	I_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
397.5 5	36 10	2372.7	$(13/2^+)$	1975.4	$(11/2^+)$	
443.8 8	14 5	4253.6	$(17/2^+)$	3809.8	$(15/2^+)$	
539.3 4	71 15	1975.4	$(11/2^+)$	1436.1	$(9/2^+)$	
883.3 6	29 8	2319.5	$(11/2^+)$	1436.1	$(9/2^+)$	
1113 [#]		1113	$(7/2^+)$	0.0	$5/2^+$	
1436.1 5		1436.1	$(9/2^+)$	0.0	$5/2^+$	
1437.5 8	14 5	3809.8	$(15/2^+)$	2372.7	$(13/2^+)$	
1490 1	14 5	3809.8	$(15/2^+)$	2319.5	$(11/2^+)$	
1834 1		3809.8	$(15/2^+)$	1975.4	$(11/2^+)$	I_γ : weak γ ray.

[†] Normalized to 100 for $I\gamma(539)+I\gamma(883)$ by the author of [2009Po04](#).

[‡] Placement of transition in the level scheme is uncertain.



$^{208}\text{Pb}({}^{18}\text{O},\text{X}\gamma)$ 2009Po04

Band(A): Yrast sequence

