²⁰⁸**Pb**(¹⁸**O,X** γ) **2004Pr10**

History									
Type	Author	Citation	Literature Cutoff Date						
Full Evaluation	A. A. Sonzogni, M. Fadil, and B. Pfeiffer	NDS 110,2815 (2009)	30-Sep-2009						

E=85 MeV. Measured Eγ, Iγ, γγ with the euroball iv array containing 71 Compton-suppressed Ge detectors (15 cluster Ge detectors placed in the backward hemisphere with respect to the beam, 26 Clover Ge detectors located around 90°, 30 tapered single-crystal Ge detectors located at forward angles) and an inner ball of 210 BGO crystals. Each cluster detector is composed of seven closely packed large-volume Ge crystals and each Clover detector consists of four smaller Ge crystals.

⁸⁴Se Levels

E(level) [†]	$J^{\pi \ddagger}$
0.0#	0+
1454.51 [#] 20	(2^{+})
2121.3 [#] 4	(4^{+})
3370.0 4	
3536.7 4	(5^{+})
3700.9 [#] 4	(6^{+})
4405.3 6	(7^{+})
4898.1 <i>6</i>	

[†] From least-squares fit to $E\gamma's$.

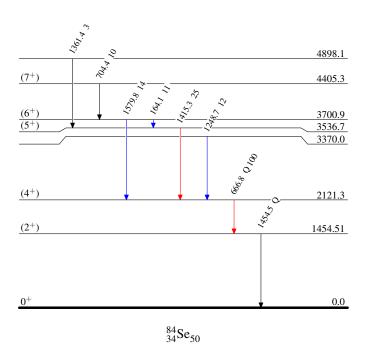
γ(⁸⁴Se)

E_{γ}	I_{γ}	E_i (level)	\mathbf{J}_i^{π}	\mathbf{E}_f	\mathbf{J}_f^{π}	Mult.
164.1 2	11 6	3700.9	$\overline{(6^+)}$	3536.7	(5^{+})	
666.8 <i>3</i>	100 5	2121.3	(4^{+})	1454.51	(2^{+})	Q
704.4 <i>4</i>	10 <i>3</i>	4405.3	(7^{+})	3700.9	(6^{+})	
1248.7 2	12 <i>3</i>	3370.0		2121.3	(4^{+})	
1361.4 <i>4</i>	3 1	4898.1		3536.7	(5^{+})	
1415.3 2	25 <i>3</i>	3536.7	(5^{+})	2121.3	(4^{+})	
1454.5 2		1454.51	(2^{+})	0.0	0_{+}	Q
1579.8 <i>3</i>	14 3	3700.9	(6^{+})	2121.3	(4^{+})	

[†] From $(667\gamma)(1454)(\theta)$, results consistent with $Q(\beta^{-})Q$ cascade.

[‡] From Adopted Levels, based on the fact that the 1454 γ and 667 γ consistent with Q(β ⁻)Q cascade, shell-model calculations, and systematics of N=50 nuclei.

[#] Band(A): γ -sequence based on ground state.



208 Pb(18 O,X γ) 2004Pr10

Band(A): γ -sequence based on ground state

