

$^{208}\text{Pb}(^{18}\text{O},\text{X}\gamma)$  [2013As07](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

$E(^{18}\text{O})=85$  MeV. Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ ,  $\gamma\gamma(\theta)$  using Euroball array consisting of 15 cluster Ge detectors, 26 clover Ge detectors, 30 tapered single-crystal Ge detectors. Cross coincidences with  $\gamma$ -ray transitions in complementary fragments used as a check of the assignment of transitions to  $^{88}\text{Kr}$ .

 $^{88}\text{Kr}$  Levels

$E(\text{level})^\dagger$	$J^\pi \ddagger$	$T_{1/2} \#$	$E(\text{level})^\dagger$	$J^\pi \ddagger$	$T_{1/2} \#$	$E(\text{level})^\dagger$	$J^\pi \ddagger$	$E(\text{level})^\dagger$
0.0	$0^+$		3160.5 5	(5)		4342.1 6	(8)	6108.2 13
775.1 2	$2^+$		3166.7 5	(6)		4478.2 8		6233.0 8
1643.5 3	$4^+$		3294.3 5	(5,6)	$\leq 1$ ps	4857.0 6		7490.1 11
2103.2 4	$(4^+)$		3903.8 6			5192.5 7	(9)	7969.0 12
2854.5 5	(5)	$\leq 1$ ps	3920.4 5	(7)		5856.2 8		

$^\dagger$  From a least-squares fit to  $E\gamma$ , by evaluators.

$^\ddagger$  From the Adopted Levels.

# Estimated by [2013As07](#) based on observed Doppler broadening of the 440- and 751-keV  $\gamma$  rays.

 $\gamma(^{88}\text{Kr})$ 

$E_\gamma$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. $\ddagger$	Comments
421.6 4	3.0 15	4342.1	(8)	3920.4 (7)			
439.8 3	15 4	3294.3	(5,6)	2854.5 (5)		D	
459.7 2	34 7	2103.2	$(4^+)$	1643.5 4 $^+$		D	Mult.: stretched Q or $\Delta J=0$ , D from $\gamma\gamma(\theta)$ ; the former is excluded by considering the decay of the 1328 $\gamma$ .
478.9 4	1.7 8	7969.0		7490.1			
574.4 4	5 2	4478.2		3903.8			
609.5 4	6 2	3903.8		3294.3 (5,6)			
751.2 3	17 4	2854.5	(5)	2103.2 ( $4^+$ )		D	
753.7 3	13 3	3920.4	(7)	3166.7 (6)		D	
759.9 3	20 5	3920.4	(7)	3160.5 (5)	Q		
775.1 2	100	775.1	2 $^+$	0.0 0 $^+$			
850 1	1.5 7	5192.5 (9)		4342.1 (8)			
868.4 2	90 13	1643.5 4 $^+$		775.1 2 $^+$			
936.6 4	9 3	4857.0		3920.4 (7)			$I_\gamma$ : 9.0 3 given in <a href="#">2013As07</a> is likely a typo given the overall uncertainties assigned to comparable transitions.
999.2 4	4 2	5856.2		4857.0			
1040.5 5	5 2	6233.0		5192.5 (9)			
1175.5 7	2 1	4342.1 (8)		3166.7 (6)			
1191.2 5	6 2	3294.3 (5,6)		2103.2 ( $4^+$ )			
1257.1 7	2.5 12	7490.1		6233.0			
1272.1 5	10 3	5192.5 (9)		3920.4 (7)			
1328.1 5	7 2	2103.2 ( $4^+$ )		775.1 2 $^+$			
1517.0 4	21 4	3160.5 (5)		1643.5 4 $^+$		D	
1523.2 4	17 4	3166.7 (6)		1643.5 4 $^+$	Q		
1630 1	1.5 7	6108.2		4478.2			

$^\dagger$  Relative intensity normalized to  $I\gamma(775\gamma)=100$ .

$^\ddagger$  From  $\gamma\gamma(\theta)$ .

