

<sup>75</sup>As(p,2n $\gamma$ ) 1979Yo03

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Ameenah R. Farhan		NDS 107, 1923 (2006)	30-Apr-2006

1979Yo03: E=17-28 MEV. Measured  $\gamma$ ,  $\gamma\gamma$ ,  $\gamma(\theta)$ , excitation functions. Main data at 21 MeV.

<sup>74</sup>Se Levels

E(level)	J $\pi^\dagger$	E(level)	J $\pi^\dagger$	E(level)	J $\pi^\dagger$
0.0 $\ddagger$	0 <sup>+</sup>	1363.2 $\ddagger$ 3	4 <sup>+</sup>	2231.4 $\ddagger$ 4	6 <sup>+</sup>
634.77 $\ddagger$ 24	2 <sup>+</sup>	1838.4 5	2 <sup>+</sup>	2350.3 4	3 <sup>-</sup>
854.1 4	0 <sup>+</sup>	1884.3 3	3 <sup>+</sup>	2662.2 4	5 <sup>+</sup>
1269.24 24	2 <sup>+</sup>	2107.6 3	4 <sup>+</sup>	2842.6 4	(5 <sup>-</sup> )
				3198.8 $\ddagger$ 5	8 <sup>+</sup>

$\dagger$  As proposed by 1979Yo03 based on  $\gamma(\theta)$  data and band assignment. The assignments are the same in 'Adopted Levels, except that it is (2<sup>+</sup>) for 1838 level and 5<sup>-</sup> for 2842 level.

$\ddagger$  Band(A): g.s. band.

$\gamma(^{74}\text{Se})$

E $\gamma$	I $\gamma^\dagger$	E <sub>i</sub> (level)	J $\pi_i^\dagger$	E <sub>f</sub>	J $\pi_f^\dagger$	Comments
219.3 3	6	854.1	0 <sup>+</sup>	634.77	2 <sup>+</sup>	A <sub>2</sub> =-0.009 14, A <sub>4</sub> =+0.014 21.
611.4 3	2	2842.6	(5 <sup>-</sup> )	2231.4	6 <sup>+</sup>	
615.4 3	5	1884.3	3 <sup>+</sup>	1269.24	2 <sup>+</sup>	A <sub>2</sub> =+0.065 22, A <sub>4</sub> =-0.06 4.
634.8 $\ddagger$ 3	100 $\ddagger$	634.77	2 <sup>+</sup>	0.0	0 <sup>+</sup>	A <sub>2</sub> =+0.106 5, A <sub>4</sub> =-0.033 8.
634.8 $\ddagger$ 3	14 $\ddagger$	1269.24	2 <sup>+</sup>	634.77	2 <sup>+</sup>	
728.5 3	43	1363.2	4 <sup>+</sup>	634.77	2 <sup>+</sup>	A <sub>2</sub> =+0.186 10, A <sub>4</sub> =-0.023 18.
734.8 3	3	2842.6	(5 <sup>-</sup> )	2107.6	4 <sup>+</sup>	
744.9 3	2	2107.6	4 <sup>+</sup>	1363.2	4 <sup>+</sup>	A <sub>2</sub> =-0.05 8, A <sub>4</sub> =-0.13 14.
777.9 3	3	2662.2	5 <sup>+</sup>	1884.3	3 <sup>+</sup>	A <sub>2</sub> =+0.22 6, A <sub>4</sub> =+0.01 12.
838.3 3	5	2107.6	4 <sup>+</sup>	1269.24	2 <sup>+</sup>	A <sub>2</sub> =+0.229 9, A <sub>4</sub> =+0.004 17.
868.5 3	13	2231.4	6 <sup>+</sup>	1363.2	4 <sup>+</sup>	A <sub>2</sub> =+0.221 16, A <sub>4</sub> =-0.004 23.
967.4 3	3	3198.8	8 <sup>+</sup>	2231.4	6 <sup>+</sup>	
984.3 3	1	1838.4	2 <sup>+</sup>	854.1	0 <sup>+</sup>	
1081.0 3	4	2350.3	3 <sup>-</sup>	1269.24	2 <sup>+</sup>	
1249.9 3	5	1884.3	3 <sup>+</sup>	634.77	2 <sup>+</sup>	A <sub>2</sub> =-0.02 5, A <sub>4</sub> =0.00 7.
1269.2 3	7	1269.24	2 <sup>+</sup>	0.0	0 <sup>+</sup>	A <sub>2</sub> =+0.086 18, A <sub>4</sub> =-0.13 3.
1299.0 3	2	2662.2	5 <sup>+</sup>	1363.2	4 <sup>+</sup>	
1472.0 3	1	2107.6	4 <sup>+</sup>	634.77	2 <sup>+</sup>	

$\dagger$  Uncertainties are 10% for strong lines and 30% for weak lines.

$\ddagger$  Multiply placed with intensity suitably divided.

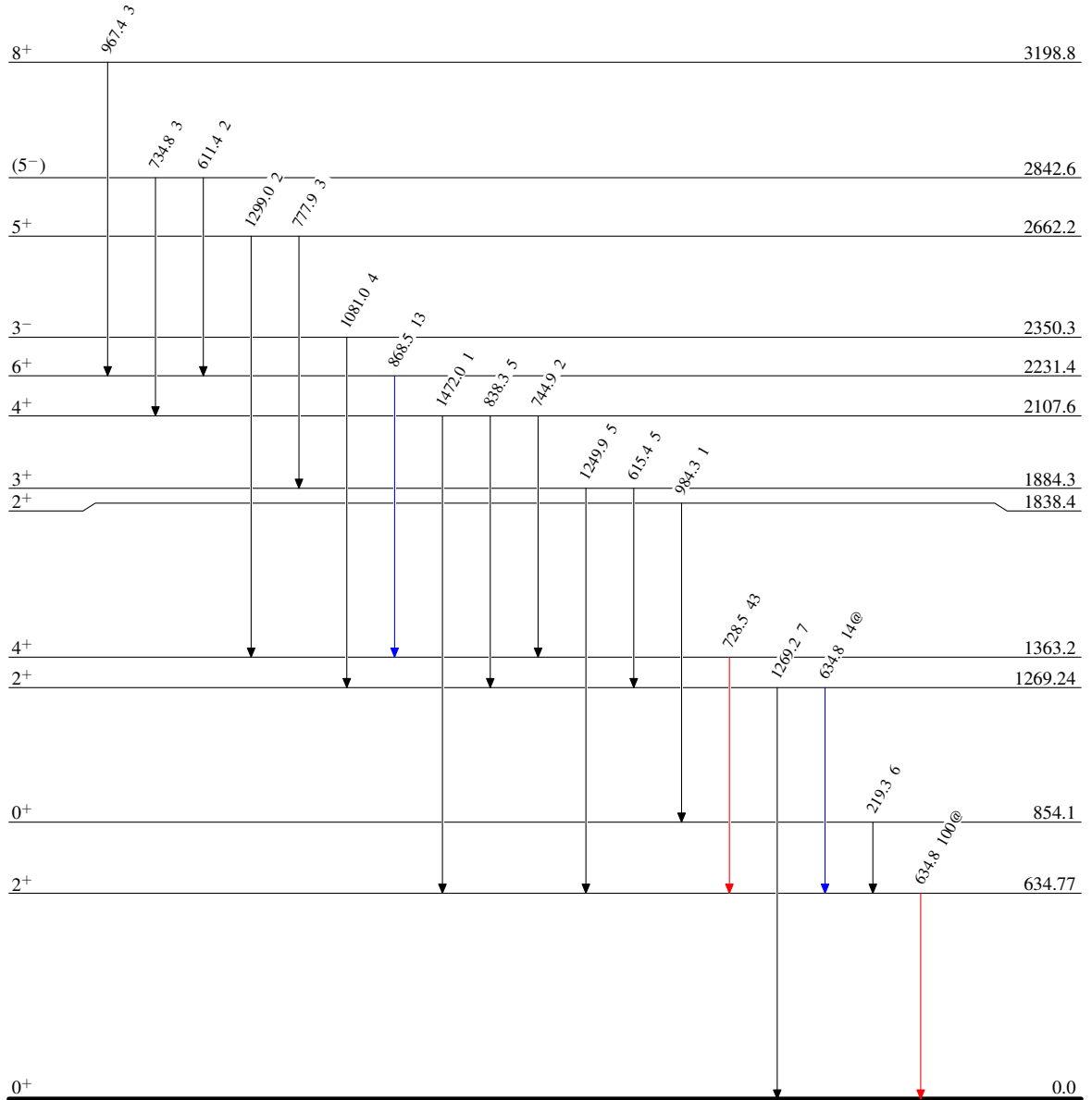
$^{75}\text{As}(p,2n\gamma)$  1979Yo03

Level Scheme

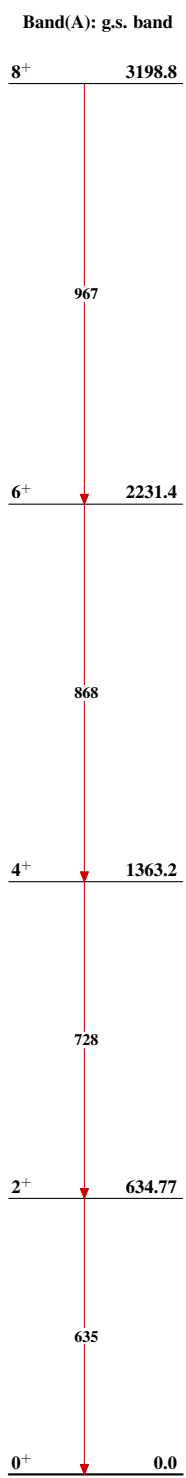
Intensities: Relative  $I_\gamma$   
@ Multiply placed: intensity suitably divided

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$



$^{74}_{34}\text{Se}_{40}$

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