

$^{74}\text{Se}(\text{n},\gamma)$ E=27.1 eV [1981En07](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh		NDS 114, 841 (2013)	30-Jun-2013

E=27.1 eV. Natural target.

 ^{75}Se Levels

E(level)	$J^{\pi\dagger}$	Comments
293.1 4	$1/2^-$	
1020.4 4	$1/2^-, 3/2^-$	
1198.8 5	$5/2^+$	
1589.6 10	$5/2^+$	
1803.3 11	$3/2^+, 5/2^+$	
1986.0 5	$1/2, 3/2, 5/2^+$	
2166.5 10	$1/2, 3/2, 5/2^+$	
2456.9 10	$1/2^+, 5/2^+$	
2564.9 7	$1/2^+$	
2596.8 6	$1/2, 3/2, 5/2^+$	
2630.9 6	$1/2^+$	
2737.5 5	$1/2, 3/2, 5/2^+$	
8027.63 7	$1/2^+$	E(level): Calculated as S(n)+27.1 eV; S(n)=8027.60 7 (2012Wa38). J $^{\pi}$: s-wave resonance.

 † From Adopted Levels. $\gamma(^{75}\text{Se})$

E_{γ}	$I_{\gamma}^{\dagger}$	$E_i(\text{level})$	J_i^{π}	E_f	J_f^{π}
5289.8 4	0.7 1	8027.63	$1/2^+$	2737.5	$1/2, 3/2, 5/2^+$
5396.3 5	0.7 1	8027.63	$1/2^+$	2630.9	$1/2^+$
5430.5 5	1.4 1	8027.63	$1/2^+$	2596.8	$1/2, 3/2, 5/2^+$
5462.3 6	0.9 1	8027.63	$1/2^+$	2564.9	$1/2^+$
5570.4 10	1.3 1	8027.63	$1/2^+$	2456.9	$1/2^+, 5/2^+$
5861.0 9	0.8 1	8027.63	$1/2^+$	2166.5	$1/2, 3/2, 5/2^+$
6041.2 3	0.6 1	8027.63	$1/2^+$	1986.0	$1/2, 3/2, 5/2^+$
6223.9 11	1.3 1	8027.63	$1/2^+$	1803.3	$3/2^+, 5/2^+$
6437.5 9	3.2 4	8027.63	$1/2^+$	1589.6	$5/2^+$
6828.3 3	1.4 2	8027.63	$1/2^+$	1198.8	$5/2^+$
7006.7 2	1.4 2	8027.63	$1/2^+$	1020.4	$1/2^-, 3/2^-$
7734.0 1	14.2 2	8027.63	$1/2^+$	293.1	$1/2^-$

 † Intensity per 100 neutron captures.

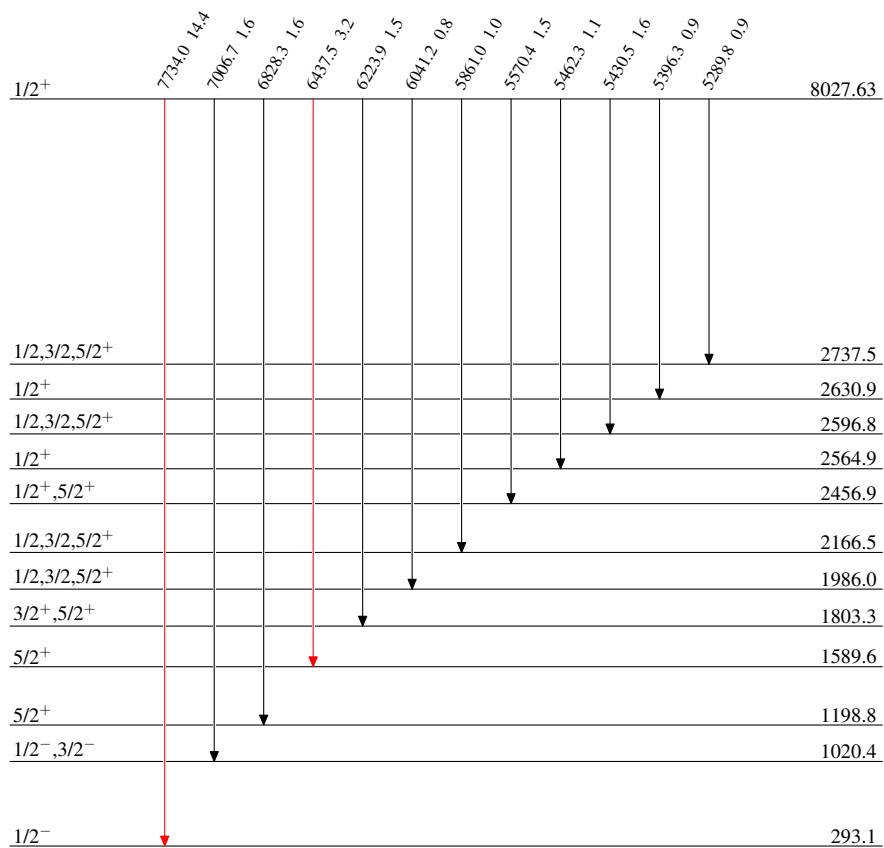
$^{74}\text{Se}(\text{n},\gamma) \text{E}=27.1 \text{ eV}$ 1981En07

Level Scheme

Intensities: Per 100 N-captures

Legend

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

 $^{75}_{34}\text{Se}_{41}$