^{88}Sr(n,γ) E=23.6 keV 1989Wi05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 114, 1 (2013)	20-Oct-2012

1989Wi05: measured γ spectra, E(n)=23.6 keV.

Other: 1977GrZC (also 1976KoYX): E(n)=2, 24.3 keV. Measured Eγ, Iγ. Primary transitions to g.s., 5/2$^+$, and first excited state, 1/2$^+$, were seen for E(n)=24.3 keV. This suggests capture from a 3/2$^-$ state is dominant near 24.3 keV. No γ rays were seen at E(n)=2 keV.

^{89}Sr Levels

E(level)	J$^\pi$ †	Comments
0.0	5/2$^+$	
1032	1/2$^+$	
1940	5/2$^+$	
2007	3/2$^+$	
2452	3/2$^+$	
S(n)+23.6	(3/2$^-$)	E(level): S(n)=6358.72 *9* (2011AuZZ). J$^\pi$: L=1 capture (1975Ma11) and γ to 5/2$^+$.

† From Adopted Levels.

γ(^{89}Sr)

E$_\gamma$	I$_\gamma$	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$
1032		1032	1/2$^+$	0.0	5/2$^+$
1940		1940	5/2$^+$	0.0	5/2$^+$
3930	2.0 *6*	S(n)+23.6	(3/2$^-$)	2452	3/2$^+$
4375	1.0 *3*	S(n)+23.6	(3/2$^-$)	2007	3/2$^+$
4442	2 *1*	S(n)+23.6	(3/2$^-$)	1940	5/2$^+$
5350	10 *2*	S(n)+23.6	(3/2$^-$)	1032	1/2$^+$
6381	10 *2*	S(n)+23.6	(3/2$^-$)	0.0	5/2$^+$

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Level Scheme

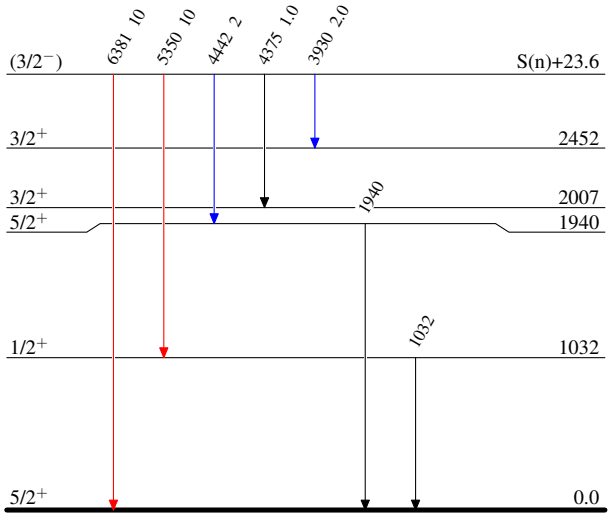
Intensities: Relative I_γ

Legend

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

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

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



$^{89}_{38}Sr_{51}$