

$^{123}\text{Sb}(n,\gamma)$ E=50.5 eV 1972LoZK

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu		NDS 109, 1655 (2008)	1-Apr-2008

1972LoZK: E(n)=50.5 eV.

 ^{124}Sb Levels

E(level) [†]	J ^π @	E(level) [†]	J ^π @	E(level) [†]	E(level) [†]	J ^π @
0.0	3 ⁻	384.5 1	4 ⁻ ,5 ⁻	939 [‡] 2	1242.5 3	
80.8 1	3 ⁺ ,4 ⁺	386.3 1	2 ⁺ ,3 ⁺ ,4 ⁺	1031.2 6	1616.8 [#] 20	
103.7 1	2 ⁻ ,3 ⁻ ,4 ⁻	419.1 1	2 ⁻ ,3 ⁻ ,4 ⁻	1053.1 1	S(n)+0.0505	3 ⁺
196.0 1	4 ⁺ ,5 ⁺	653 [‡] 2		1059.6 1		
214.6 1	3 ⁺ ,4 ⁺ ,5 ⁺	863.0 1	3,4	1129.2 3		
287.1 1	3 ⁺ ,4 ⁺	896.7 9		1237.3 5		

[†] Rounded values from $^{123}\text{Sb}(n,\gamma)$ E=th, unless otherwise noted.

[‡] Only observed by 1972LoZK. E(levels) are calculated by evaluators from S(n) given in 2003Au03 and energies of primary γ 's given in 1972LoZK.

[#] From $^{123}\text{Sb}(n,\gamma)$ E=21.4 eV.

@ From Adopted Levels.

 $\gamma(^{124}\text{Sb})$

E _{γ}	I _{γ} [†]	E _i (level)	J _i ^π	E _{γ}	I _{γ} [†]	E _i (level)	J _i ^π
4850.7 20	5.4 10	S(n)+0.0505	3 ⁺	5814 2	5.4 10	S(n)+0.0505	3 ⁺
5224.6 20	10.1 10	S(n)+0.0505	3 ⁺	6049 2	14.7 10	S(n)+0.0505	3 ⁺
5233 2	4.7 10	S(n)+0.0505	3 ⁺	6079 2	14.7 10	S(n)+0.0505	3 ⁺
5338.1 20	7.8 10	S(n)+0.0505	3 ⁺	6084 2	33.3 10	S(n)+0.0505	3 ⁺
5406.6 20	24.0 10	S(n)+0.0505	3 ⁺	6179 2	8.5 10	S(n)+0.0505	3 ⁺
5413 2	38.8 10	S(n)+0.0505	3 ⁺	6254.7 20	3.1 10	S(n)+0.0505	3 ⁺
5435.4 20	7.0 10	S(n)+0.0505	3 ⁺	6272 2	7.0 10	S(n)+0.0505	3 ⁺
5528 2	10.1 10	S(n)+0.0505	3 ⁺	6365 2	3.9 10	S(n)+0.0505	3 ⁺
5571 2	8.5 10	S(n)+0.0505	3 ⁺	6390 2	7.0 10	S(n)+0.0505	3 ⁺
5604.2 20	40.3 10	S(n)+0.0505	3 ⁺	6468.1 20	3.8 10	S(n)+0.0505	3 ⁺

[†] Relative to I(6380.2 γ)=100 in $^{123}\text{Sb}(n,\gamma)$ E(n)=21.4 eV.