

¹²³Sb(n,γ) E=76.7 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)=76.7 eV.

¹²⁴Sb Levels

E(level) [†]	J ^π [@]	E(level) [†]	J ^π [@]	E(level) [†]	E(level) [†]	J ^π [@]
0.0	3 ⁻	386.3 1	2 ⁺ ,3 ⁺ ,4 ⁺	1059.6 1	1616.8 [#] 20	
131.7 1	(5) ⁻	593 [‡] 2		1129.2 3	1689 [‡] 2	
214.6 1	3 ⁺ ,4 ⁺ ,5 ⁺	863.0 1	3,4	1180.7 6	S(n)+0.0767	4 ⁺
287.1 1	3 ⁺ ,4 ⁺	896.7 9		1301.8 [#] 20		
384.5 1	4 ⁻ ,5 ⁻	1053.1 1		1596 [‡] 2		

[†] Rounded values from ¹²³Sb(n,γ) 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 ¹²³Sb(n,γ) E=21.4 eV.

[@] From Adopted Levels.

γ(¹²⁴Sb)

E _γ	I _γ [†]	E _i (level)	J _i ^π	E _γ	I _γ [†]	E _i (level)	J _i ^π
4778 2	27.1 10	S(n)+0.0767	4 ⁺	5604.2 20	155 1	S(n)+0.0767	4 ⁺
4850.7 20	7.8 10	S(n)+0.0767	4 ⁺	5874 2	55.0 10	S(n)+0.0767	4 ⁺
4871 2	7.8 10	S(n)+0.0767	4 ⁺	6079 2	4.7 10	S(n)+0.0767	4 ⁺
5165.7 20	10.1 10	S(n)+0.0767	4 ⁺	6084 2	27.1 10	S(n)+0.0767	4 ⁺
5283.8 20	27.9 10	S(n)+0.0767	4 ⁺	6179 2	11.6 10	S(n)+0.0767	4 ⁺
5338.1 20	10.9 10	S(n)+0.0767	4 ⁺	6254.7 20	5.4 10	S(n)+0.0767	4 ⁺
5406.6 20	7.8 10	S(n)+0.0767	4 ⁺	6336.0 20	13.2 10	S(n)+0.0767	4 ⁺
5413 2	13.2 10	S(n)+0.0767	4 ⁺	6468.1 20	5.4 10	S(n)+0.0767	4 ⁺
5571 2	8.5 10	S(n)+0.0767	4 ⁺				

[†] Relative to I(6380.2γ)=100 in ¹²³Sb(n,γ) E(n)=21.4 eV.