

$^{123}\text{Sb}(\text{n},\gamma)$ E=105.0 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)=105.0 eV.

 ^{124}Sb Levels

E(level) [†]	J ^π @	E(level) [†]	J ^π @	E(level) [†]	E(level) [†]	J ^π @
0.0	3 ⁻	484.0 1	3 ⁺ ,4 ⁺ ,5 ⁺	1053.1 1	1242.5 3	
103.7 1	2 ⁻ ,3 ⁻ ,4 ⁻	593 [‡] 2		1059.6 1	1301.8 [#] 20	
384.5 1	4 ⁻ ,5 ⁻	863.0 1	3,4	1129.2 3	S(n)+0.1050	3 ⁺
419.1 1	2 ⁻ ,3 ⁻ ,4 ⁻	896.7 9		1237.3 5		

[†] Rounded values from $^{123}\text{Sb}(\text{n},\gamma)$ 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 $^{123}\text{Sb}(\text{n},\gamma)$ 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
5165.7 20	7.8 10	S(n)+0.1050	3 ⁺	5604.2 20	5.4 10	S(n)+0.1050	3 ⁺
5224.6 20	9.3 10	S(n)+0.1050	3 ⁺	5874 2	20.9 10	S(n)+0.1050	3 ⁺
5233 2	4.7 10	S(n)+0.1050	3 ⁺	5984 2	6.2 10	S(n)+0.1050	3 ⁺
5338.1 20	8.5 10	S(n)+0.1050	3 ⁺	6049 2	131 1	S(n)+0.1050	3 ⁺
5406.6 20	4.7 10	S(n)+0.1050	3 ⁺	6084 2	47.3 10	S(n)+0.1050	3 ⁺
5413 2	23.3 10	S(n)+0.1050	3 ⁺	6365 2	48.8 10	S(n)+0.1050	3 ⁺
5571 2	36.4 10	S(n)+0.1050	3 ⁺	6468.1 20	103 1	S(n)+0.1050	3 ⁺

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