

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, J. Timar and Z. Elekes		NDS 161, 1 (2019)	1-Apr-2019

$Q(\beta^-) = -11.2 \times 10^3$ 3; $S(n) = -1291 \times 10^1$ 12; $S(p) = 323$ 23; $Q(\alpha) = 2173$ SY [2017Wa10](#)

 ^{105}Sb Levels**Cross Reference (XREF) Flags**

- A** ^{109}I α decay ($92.8\ \mu\text{s}$)
- B** $^{50}\text{Cr}(^{58}\text{Ni},\text{p}2\text{n}\gamma)$

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0 [‡]	(5/2 ⁺)	1.22 s 11	AB	%ε+%\beta+=100; %p=? %p: E(p)=478 15 keV and %p ≈ 1 in 1994Ti03 , but not confirmed by 1997Sh13 . J ^π : from systematics.
1219.41 [‡] 20	(9/2 ⁺)		B	J ^π : 1219.4γ (E2) to (5/2 ⁺).
1840.7 [‡] 3	(13/2 ⁺)		B	J ^π : 621.3γ (E2) to (9/2 ⁺).
2211.1 [‡] 4	(15/2 ⁺)		B	J ^π : 370.4γ (M1) to (13/2 ⁺). configuration: πd _{5/2} ⁺¹ ν(d _{5/2} ⁺³ vg _{7/2} ⁺¹).
2498.1 [‡] 4	(17/2 ⁺)		B	J ^π : 287.0γ (M1) to (15/2 ⁺). configuration: πd _{5/2} ⁺¹ ν(d _{5/2} ⁺³ vg _{7/2} ⁺¹).
2993.3 [‡] 5	(19/2 ⁺)		B	J ^π : 495.2γ (M1) to (17/2 ⁺). configuration: πd _{5/2} ⁺¹ ν(d _{5/2} ⁺¹ g _{7/2} ⁺¹) and one neutron pair coupled to J=0.
3728.4 [‡] 6	(23/2 ⁺)		B	J ^π : 735.1γ (E2) to (19/2 ⁺).
3973.8 [‡] 7	(25/2 ⁺ ,27/2 ⁺)		B	J ^π : 245.4γ to (23/2 ⁺).

[†] From a least-squares fit to Eγ.

[‡] Seq.(A): Level sequence.

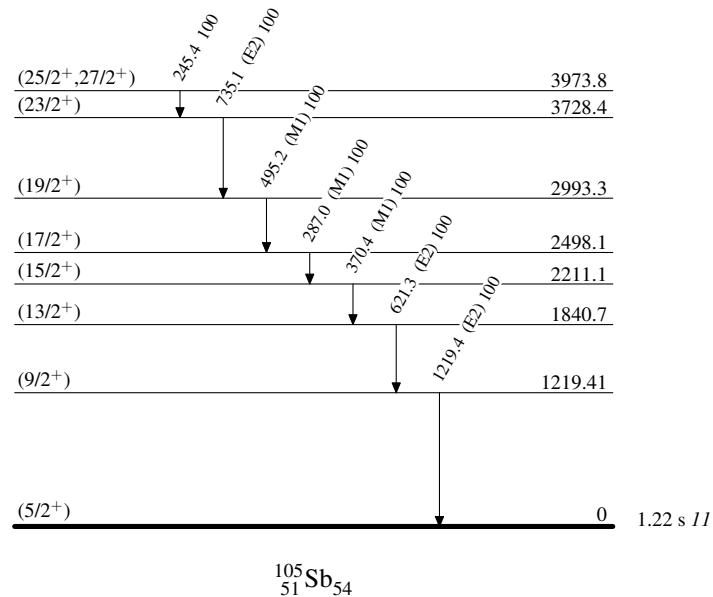
 $\gamma(^{105}\text{Sb})$

E _i (level)	J ^π _i	E _γ [†]	I _γ	E _f	J ^π _f	Mult.	Comments
1219.41	(9/2 ⁺)	1219.4 2	100	0	(5/2 ⁺)	(E2)	Mult.: R _{DCO} =1.3 1 from $^{50}\text{Cr}(^{58}\text{Ni},\text{p}2\text{n}\gamma)$ in 2002Li33 .
1840.7	(13/2 ⁺)	621.3 2	100	1219.41	(9/2 ⁺)	(E2)	Mult.: R _{DCO} =1.2 2 from $^{50}\text{Cr}(^{58}\text{Ni},\text{p}2\text{n}\gamma)$ in 2002Li33 .
2211.1	(15/2 ⁺)	370.4 2	100	1840.7	(13/2 ⁺)	(M1)	Mult.: R _{DCO} =0.6 1 from $^{50}\text{Cr}(^{58}\text{Ni},\text{p}2\text{n}\gamma)$ in 2002Li33 .
2498.1	(17/2 ⁺)	287.0 2	100	2211.1	(15/2 ⁺)	(M1)	Mult.: R _{DCO} =0.9 1 from $^{50}\text{Cr}(^{58}\text{Ni},\text{p}2\text{n}\gamma)$ in 2002Li33 .
2993.3	(19/2 ⁺)	495.2 3	100	2498.1	(17/2 ⁺)	(M1)	Mult.: R _{DCO} =0.6 1 from $^{50}\text{Cr}(^{58}\text{Ni},\text{p}2\text{n}\gamma)$ in 2002Li33 .
3728.4	(23/2 ⁺)	735.1 2	100	2993.3	(19/2 ⁺)	(E2)	Mult.: R _{DCO} =1.3 2 from $^{50}\text{Cr}(^{58}\text{Ni},\text{p}2\text{n}\gamma)$ in 2002Li33 .
3973.8	(25/2 ⁺ ,27/2 ⁺)	245.4 4	100	3728.4	(23/2 ⁺)		

[†] From $^{50}\text{Cr}(^{58}\text{Ni},\text{p}2\text{n}\gamma)$ ([2002Li33](#)).

Adopted Levels, Gammas**Level Scheme**

Intensities: Relative photon branching from each level



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Seq.(A): Level sequence

