

$^{123}\text{Sb}(\text{p,t})$ 2000Gu33

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

E=26 MeV, Q3D magnetic spectrograph, enriched target 98% on carbon backing, FWHM 8 keV, $\theta=5^\circ-65^\circ$ in steps of 5° ,
measured cross sections, $J^\pi(^{123}\text{Sb.g.s})=7/2^+$.

DWBA calculations were made by using a finite-range approximation.

Authors assigned $J=7/2^++L$ with $\pi=(-1)^L$.

 ^{121}Sb Levels

E(level)	L	$S^\dagger$	E(level)	L	$S^\dagger$	E(level)	L	$S^\dagger$	E(level)	L	$S^\dagger$
0.0	2+4+6		1735 3	2	0.0032	2159 3	5	0.1083	2437 3	0	0.0162
37 3	0	1	1759 3			2165 3	1	0.0090	2452 3	4	0.0145
508 3	2	0.0180	1810 3	2	0.0006	2176 3	3	0.0126	2467 3	4	0.0069
573 3	4	0.0005	1822 3	2	0.0202	2189 3	0	0.0126	2477 3	3	0.0256
947 3	2	0.0004	1868 3	4	0.0018	2209 3	3	0.0079	2488 3	3	0.0325
1025 3	2	0.0054	1883 3	2	0.0025	2233 3	0	0.0049	2502 3	0	0.0271
1036 3	2	0.0902	1932 3	2+4+6		2239 3	5	0.0245	2523 3	3	0.0289
1139 3	2	0.1011	1951 3	2	0.0361	2266 3	4	0.0361	2545 3	1	0.0108
1385 3	2	0.0058	1995 3	2	0.0040	2288 3	4	0.0181	2565 3	4	0.0480
1426 3	3	0.0072	2035 3	4	0.0130	2302 3	3	0.0144	2580 3	4	0.0217
1447 3	2	0.0018	2068 3			2312 3	1	0.0323	2599 3	3	0.0090
1471 3	2	0.0181	2075 3	5	0.0386	2328 3	2	0.0166	2607 3	5	0.1730
1474 3	2	0.0027	2090 3	3	0.0217	2362 3	4	0.0126	2625 3	4	0.0165
1509 3	2	0.0018	2104 3	3	0.0282	2377 3	2	0.0108	2636 3	4	0.0816
1518 3	2	0.0032	2111 3	2	0.0152	2396 3	4	0.0484	2651 3	2	0.0144
1612 3	2	0.0072	2128 3	5	0.0386	2407 3	4	0.2040			
1628 3	2	0.0025	2148 3	3	0.0119	2426 3	4	0.0066			

† Relative to the spectroscopic factor for transfer to 37 keV $7/2^+$ state.