^{128}Te(t,α) 1973Co33

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. Hashizume	NDS 112, 1647 (2011)	1-Oct-2009

1973Co33: multiangle spectrograph, FWHM≈30 keV, θ=22.5°−175°, enriched target 92.8%.
1980Sh03: E=16 MeV, Enge split-pole magnetic spectrograph, FWHM≈30 keV.

^{127}Sb Levels

E(level)	J^{π} †	L	C^2S ‡	Comments
0.0	$7/2^+$	4	1.65	C^2S: if $1g_{7/2}$; other: 1.82 (1980Sh03).
502# *12*	$(5/2)^+$	2	0.23	C^2S: if $2d_{5/2}$; other: 0.13 (1980Sh03).
778 *13*	$(3/2)^+$	2	0.08	C^2S: if $2d_{3/2}$; other: 0.03 (1980Sh03).
1110 *10*	$1/2^+$	0	0.02	C^2S: if $3s_{1/2}$. E(level): 1180 (1980Sh03).
1199 *10*	$1/2^+$			
2145? *10*				Complex peak of 2140.37 *22*, 2150.4 *4* and/or 2150.55 *22* (evaluator).
2261 *10*	$9/2^+$,$7/2^+$	4	1.91	C^2S: if $1g_{9/2}$.
2423 *10*				
2549 *10*	$1/2^-$,$3/2^-$	1	0.74	C^2S: if $2p_{1/2}$.
2747 *10*	$3/2^-$,$1/2^-$	1	0.61	C^2S: if $2p_{3/2}$.
2866 *10*	$5/2^-$,$7/2^-$	3	1.47	C^2S: if $1f_{5/2}$.
3164 *10*	$7/2^+$,$9/2^+$	4	0.53	C^2S: if $1g_{9/2}$.

† From Adopted Levels.
‡ DWBA analysis is made by using local and zero-range approximations (1973Co33): spectroscopic factors C^2S are relative values; $\Sigma(C^2S)$ normalized with the assumption that Te isotopes are represented by two protons above the Z=50 core, distributed among the $1g_{7/2}$, $2d_{5/2}$, $2d_{3/2}$, $3s_{1/2}$ and $1h_{11/2}$ orbitals.
# Uncertainty assigned by the evaluator.