

$^{120}\text{Te}({}^3\text{He},\alpha)$ 1987Ro15

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli		NDS 110,2945 (2009)	1-Dec-2008

1987Ro15: (${}^3\text{He},\alpha$), $E({}^3\text{He})=24$ MeV; multigap magnetic spectrograph, $\text{FWHM}\approx 20$ keV; $\sigma(E,\theta)$ $\theta=7.5^\circ-77.5^\circ$; DWBA, CCBA analysis, deduced L, S.

See also $^{120}\text{Te}(\text{d},\text{t})$.

 ^{119}Te Levels

E(level) [†]	L	S [‡]	E(level) [†]	L	S [‡]	E(level) [†]	L	S [‡]	E(level) [†]	L	S [‡]
0.0	0	0.6	725 10	2	0.2	1372 10	(2)	0.1	1888 10	(2)	0.2
262 10	5	3.8	771 10	3	0.1	1411 10	4	0.4	1924 10	(4)	0.2
321 10	2	2.9	815 10	2	0.2	1443 10	4	0.3	1969 10	(4)	0.2
361 10	4	5.3	883 10	2	0.07	1517 10	(2)	0.1	2010 10	(4)	0.2
467 10			906 10			1604 10	(4)	0.1	2081 10	(4)	0.2
504 10			968 10	2	1.8	1660 10	(2)	0.1	2214 10	(4)	0.3
558 10	2	0.3	995 10	4	0.9	1704 10	(4)	0.2	2276 10	(4)	0.2
634 10	2	0.1	1111 @ 10	(4)	0.1	1748 10	(4)	0.2	2347 10	(4)	0.3
670 10	4	0.6	1198 # 10	4	0.3	1819 10	(4)	0.2	2384 10	(2)	0.3

[†] Uncertainties are assigned by the evaluators from authors' statement of 2-10 keV for those range.

[‡] C²S.

Probable doublet (L=2 and 4).

@ Authors' drawing suggests the fit to L=4 is not very good, but note some L=2 admixture would improve the fit. Then this level is considered a possible doublet with L=2 and L=4.