^{128}Te(d,t),(^{3}He,α) 1985Ro19

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

Magnetic spectrograph, $\sigma(\theta)$ θ=7.5°−77.5° (15 angles), uncertainty in measured cross sections is 20%; deduced S, enriched target; DWBA and CCBA calculation.
E(d)=17 MeV, FWHM≈12 keV.
E(^{3}He)=24 MeV, FWHM≈32 keV.
Other: (d,t) (1964Jo12).

^{127}Te Levels

E(level)[†]	L[&]	S[a]	Comments
0.0[‡]	2	2.5	
62 *5*	0	1.5	
89[‡] *5*	5	5.5	E(level): 90 *10* (^{3}He,α).
340[‡] *5*	(5)		E(level): 341 *10* (^{3}He,α).
475 *5*	2	0.008	
503 *5*	2	0.07	
603 *5*	2	0.03	
633[‡] *5*	3	0.11	E(level): 629 *10* (^{3}He,α).
687[‡] *5*	4	0.56	E(level): 683 *10* (^{3}He,α).
763 *5*			
783[‡] *5*	2	1.7	E(level): 785 *10* (^{3}He,α).
926[‡] *5*	4	3.9	E(level): 925 *10* (^{3}He,α).
966 *5*	2	0.01	
1075 *5*	2	0.03	
1140[@] *5*	2	0.87	
1157[@] *5*	(5)	0.18	
1206 *5*	2	0.009	
1290[‡] *5*	2	0.53	E(level): 1291 *10* (^{3}He,α).
1308 *5*	2	0.02	
1354 *5*	(1)	0.005	
1378[‡] *5*	2	0.61	E(level): 1383 *10* (^{3}He,α).
1405 *5*	0	0.05	
1429[@] *5*	4	0.16	
1447[@] *5*	(4)	0.12	
1491 *5*	(4)	0.14	
1554[‡] *5*	2	1.1	E(level): 1556 *10* (^{3}He,α).
1567 *5*	2	0.11	
1602 *5*	(2)	0.01	
1614[‡] *5*	4	0.35	E(level): 1615 *10* (^{3}He,α).
1683 *5*	2	0.01	
1702 *5*	2	0.01	
1732[#] *5*	(4)	0.11	
1770 *5*	2	0.02	
1804[#] *5*	4	0.21	
1875 *5*	2	0.11	
1887 *5*	0	0.03	
1914 *5*	2	0.02	
1938[#] *5*	4	0.37	
1954 *5*	0	0.07	
1974 *5*	2	0.04	

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^{128}Te(d,t),(^{3}He,α) 1985Ro19 (continued)

^{127}Te Levels (continued)

E(level)†	L&	S[a]	E(level)†	L&	S[a]	E(level)†	L&	S[a]	E(level)†	L&	S[a]
1985# 5	(4)	0.29	2051 5	(2)	0.02	2174 5	2	0.03	2279 5	(2)	0.02
1998 5	1	0.02	2098 5	2	0.02	2196# 5	4	0.44	2461 5	(0)	0.01
2008 5	(0)	0.02	2117 5	0	0.1	2217 5	2	0.03	2473 5	(2)	0.06
2026 5	2	0.03	2137# 5	(4)	0.34	2242# 5	(4)	0.17			

† From (d,t).
‡ Also observed in (^{3}He,α).
# Also observed in (^{3}He,α), but energy is uncertain.
@ Complex peak in (^{3}He,α).
& From DWBA analysis.
[a] From DWBA. Values are those given by the authors based on values from both (d,t) and (^{3}He,α).