^{54}Cr(t,^{3}He) 1985Aj03,1977Fl03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde	NDS 121, 1 (2014)	20-Jun-2014

Additional information 1.

1977Fl03: E=23.0 MeV, Q3D magnetic spectrometer, FWHM≈25 keV. Measured $\sigma(\theta)$.

1985Aj03: E=25 MeV, Q3D spectrometer, energy resolution 15-20 keV, measured dσ/dΩ, DWBA analyses and coupled-channels Born approximation (CCBA) calculations.

Q=−7017 *12* keV from weighted average of −7006 *20* (1985Aj03) and −7023 *15* (1977Fl03).

^{54}V Levels

E(level)[†]	dσ/dΩ (25°), μb/sr. From 1977Fl03.
0.0	2.0 *6*
116 *5*	3.9 *12*
245 *8*	4.9 *15*
291[‡] *10*	
447 *8*	1.4 *5*
495[‡] *10*	
540 *8*	
703 *10*	0.9 *4*
745 *8*	2.4 *9*
770 *10*	
847 *10*	
940[#] *15*	1.9 *7*
968 *15*	1.4 *8*
1208[#] *20*	1.6 *5*
1540[#] *20*	
1675 *15*	2.1 *9*
1752 *15*	
1865 *15*	
1934[#] *20*	
1987[@] *15*	
2123 *15*	
2319[‡] *10*	1.4 *4*
2400[‡] *15*	
2435[‡] *15*	
2487[‡] *10*	2.8 *8*

[†] From 1985Aj03, except as noted.

[‡] Observed only by 1977Fl03.

[#] The width of this group indicates that it is due to unresolved states, see 1985Aj03.

[@] Unweighted average of 1985Aj03 and 1977Fl03, the width of this group indicates that it is due to unresolved states.