^{87}Rb(d,p) 1971Ra17,1971To05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni	NDS 115, 135 (2014)	1-Nov-2013

J^{π}(target)=3/2$^-$.

1971Ra17: E(d)=11 MeV. Measured $\sigma(\theta)$ for θ=20° to 120° with two Si detectors (FWHM=18 keV); DWBA analysis.

1971To05: E(d)=4-6 MeV. Measured $\sigma(\theta)$ for θ=60° to 160° using two Si surface-barrier detectors (FWHM=30 keV); DWBA analysis.

^{88}Rb Levels

E(level)[†]	L[‡]	[(2J$_f$+1)/(2J$_i$+1)]S[@]	E(level)[†]	L[‡]	[(2J$_f$+1)/(2J$_i$+1)]S[@]
0.0	0+2	0.11+0.57	1660 *16*	0	0.25
28[#] *3*	2	1.38	1915 *9*	2	0.51
199 *7*	2	0.18	1951 *9*	2	0.26
268[#] *6*	2	1.52	2089 *9*		
358[#] *12*			2255 *9*		
386[#] *12*			2349 *15*		
407[#] *12*			2451[&] *9*	(2)[a]	
862 *9*	0	0.19	2500 *12*		
1138 *8*	0	0.31	2562 *9*	(2)[a]	
1166?[#b] *20*	(0)	0.11	2710 *9*		
1209 *8*	0	0.28	2769 *9*		
1222 *10*	2	0.28	2826 *9*		
1347 *8*	0	0.27	2934[&] *8*		
1610 *9*	(2)	0.21			

[†] From 1971To05, except where noted.
[‡] From DWBA (1971Ra17), except where noted.
[#] From 1971Ra17.
[@] From DWBA (1971Ra17). Uncertainty of absolute cross sections ≈25%.
[&] Centroid of a multiplet.
[a] Tentative assignment based on excitation function (1971To05).
[b] Weak peak in 1971Ra17. Since level is not observed by 1971To05 or in any other reactions, evaluators consider it questionable.