^{85}Rb(p,d) 1978Sh11

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 110,2815 (2009)	30-Sep-2009

^{84}Rb Levels

J^π(target)=5/2$^-$.
E(p)=22.6 MeV. Enriched target. Magnetic spectrometer, FWHM=20 keV.

E(level)†	J^π†	L‡	C^2S#	E(level)†	J^π†	L‡	C^2S#
0&	2$^-$	4	0.47	832 *3*	(2,3,4)$^+$	1	0.36
249& *3*	(3)$^-$	4	0.82	890 *5*	(2,3,4)$^+$	1	0.079
468@& *3*	(6,5)$^-$	4	2.99	929 *4*	(2,3,4)$^+$	1	0.082
564 *3*	(2,3,4)$^+$	1	0.89	957 *8*			
615& *3*	(4)$^-$	4	0.62	1007 *6*			
678& *5*	(7)$^-$	4	1.32	1136 *5*	(2,3,4)$^+$	1	0.10
718 *8*				1165 *3*			
768 *5*	(2,3)	0+2	0.002+0.01[a]	1286 *3*	(2,3,4)$^+$	1	0.37
797 *6*				1335 *6*			

† From 1978Sh11.
‡ From fits of the angular distribution data with DWBA predictions in 1978Sh11.
# From DWBA analysis in 1978Sh11 with estimated uncertainty of 15%. $\nu p_{1/2}$ and $\nu g_{9/2}$ transfers were assumed for L=1 and 4, respectively.
@ The peak at 468 keV is observed to be a somewhat wider, which considered with the large C^2S value and the energy shift against the 463.6-keV isomeric level, suggests that this level may be a doublet with an energy separation of<12 keV (1978Sh11).
& Configuration=((π $f_{5/2}$)(ν $g_{9/2}$)) multiplet.
[a] Deduced for $\nu s_{1/2}$ and $\nu d_{5/2}$ transfers, respectively.