

$^{87}\text{Rb}(p,p')$  1975Hu11

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)		NDS 129, 1 (2015)	27-Jul-2015

E(p)=20.89 MeV, FWHM  $\approx$  10 keV, split-pole spectrograph, DWBA analysis of  $\sigma(\theta)$ .

 $^{87}\text{Rb}$  Levels

<u>E(level)<sup>†</sup></u>	<u>L</u>	<u>BL'<sup>‡</sup></u>	<u>E(level)<sup>†</sup></u>	<u>L</u>	<u>BL'<sup>‡</sup></u>	<u>E(level)<sup>†</sup></u>	<u>L</u>	<u>BL'<sup>‡</sup></u>
401 3	(2)		2977 8	3+(5) <sup>@</sup>	0.025	3707 8	4	0.033
843 3	(2)	0.022	3002 8	5	0.014	3744 8		
1389 3	2	0.036	3058 <sup>#</sup> 8			3773 <sup>#</sup> 8		
1462 3	2	0.032	3099 8	5	0.021	3824 8	2	0.018
1575 3	3	0.030	3311 8	3	0.050	3910 8	5	0.016
1741 3	2	0.059	3340 8			3958 8	4	0.022
2013 3	2	0.042	3356 8			3976 8		
2284 3	2	0.051	3411 8			4014 8		
2379 3	(5)		3436 8			4029 8	4	0.019
2398 3	2	0.016	3480 8	3+(5) <sup>@</sup>	0.028	4057 8		
2415 3	3	0.079	3534 8			4068 8		
2555 3	3	0.043	3586 8	4	0.015	4094 8		
2732 3	3	0.074	3618 8	5	0.020	4106 8	4	0.018
2813 8	3	0.029	3647 8			4153 8	2	0.037
2962 8	3+(5) <sup>@</sup>	0.022	3685 8	3+(5) <sup>@</sup>	0.028	4209 8	4	0.032

<sup>†</sup> From authors' general statement, the uncertainties ranges from 3 keV for the low-lying levels to 8 keV for the weakly excited high-lying levels. The individual uncertainties are assigned by evaluator.

<sup>‡</sup> BL' is defined as  $[d\sigma/d\omega(\text{exp})]/[d\sigma/d\omega(\text{DWBA})]^{1/2}$ .

<sup>#</sup> Probably unresolved doublet.

<sup>@</sup> Authors suggest L=3 at forward angles, but between 50° and 90° the cross sections are too high, while L=3+5 gives a good fit.