

⁸⁵Rb(d,p) 1969Da15

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh		NDS 124, 1 (2015)	30-Nov-2014

$J^\pi(^{85}\text{Rb g.s.})=5/2^-$.

1969Da15: E=12 MeV. FWHM \approx 15 keV. Measured $\sigma(\theta)$ from $\theta=15^\circ-80^\circ$. DWBA analysis.

Other: 1954Wa33: E=15 MeV. Deduced Q value.

Level	d σ /d Ω ($\mu\text{b/sr}$)								
	Theta ($^\circ$)								
	15	25	35	40	45	50	55	65	80
0	84	101	146	115	119	94	65	48	71
486	31	6	8	2	26	3	2		
556	46	64	60	38	58	37	20	22	25
781	84	148	222	186	220	155	99	82	111
874		32	35	26	23	16	11	9	15
981	29	33		15	20	17	17	7	11
1028	20	13			9	4	4	1	3
1093	138	128		33	40		48	16	14
1197	15	15		21	24	14	12	6	5
1251		66	27	30	40	46	38		12
1309	375		69	75	98	79	50	25	16
1390	117	31	13		21		12	3	
1438		12	7				9	9	
1472	242	59	37	35	40		21		13
1502	228	41	29	27	43			8	9
1554	39	51	12	10	16	9		2	9
1707		98	41	35	46	48	33	15	13
1738	243		99	54	100	120	108	44	27
1816	320	189	209		80	91	68	27	25
1901	84	11	10	9	26	13	8	20	3
1928	137	99	38	21	33		32		15
2023	610	336	173	111	78	154	111		40
2095			12	13	20	31	24		
2175	2820	2230	3090		900	1243	1019	470	314
2282	3520	4090	1587	899			1419	640	439
2337		500	210	101	183	195		76	79
2369		52	47	29	26	23		15	27
2437		635	540	255	221	191	176		106

⁸⁶Rb Levels

E(level)	L †	E(level)	L †	E(level)	L †	E(level)
0	4	1093 2	(4+2)	1502 3	(4+2)	2023 4
486 2	1	1197 2	4	1554 3		2095 4
556 2	4	1251 2	(4+2)	1707 3		2175 4
781 2	4	1309 3		1738 3		2282 4
874 2	4	1390 3	1	1816 4		2337 4
981 2	4	1438 3		1901 4		2369 4
1028 2	1	1472 3	(4+2)	1928 4		2437 4

† From DWBA analysis.