

^{81}Rb $Z = 37$ $N = 44$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 700.287 (0.005) MeV

Qbeta+ = 2.239 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
81RB 1			0.000	3/2-	1 4.572 H 4
81RB 2	0.086	9/2+			2 30.5 M 3
81RB 3			0.153	5/2-	3 0.21 NS 10
81RB 4				0.188 1/2-, 3/2-	4
81RB 5	0.245	5/2+			5
81RB 6				0.301 (3/2)-	6
81RB 7				0.434 (7/2+)	7
81RB 8				0.443 1/2(-), 3/2(-)	8
81RB 9				0.457 (5/2)-	9
81RB 10				0.463 1/2+, 3/2, 5/2+	10
81RB 11				0.487 (5/2-)	11
81RB 12				0.575 (1/2)-	12
81RB 13				0.612 (7/2)-	13 3.7 PS 3
81RB 14				0.631 (5/2+)	14
81RB 15				0.702 1/2(-), 3/2, 5/2+	15
81RB 16				0.709 (13/2)+	16 6.0 PS 3
81RB 17				0.712 (1/2-, 3/2, 5/2+)	17
81RB 18				0.828 (5/2)+	18
81RB 19				0.896 (7/2-)	19
81RB 20				0.909 (3/2)-	20
81RB 21				0.913 (5/2+)	21
81RB 22				0.913 (9/2)-	22 1.46 PS 21
81RB 23				0.923 1/2(-), 3/2	23
81RB 24				0.987 (11/2+)	24
81RB 25				1.035 (11/2+)	25
81RB 26	1.061	1/2+			26
81RB 27				1.130	27
81RB 28				1.174 (9/2-)	28
81RB 29				1.219 1/2(+), 3/2	29
81RB 30				1.244 1/2(+), 3/2	30
81RB 31				1.305 (7/2, 9/2+)	31
81RB 32				1.382 (3/2)-	32
81RB 33				1.390 (5/2)+	33
81RB 34				1.416 (11/2)-	34 1.04 PS 14
81RB 35				1.464	35
81RB 36				1.513 1/2, 3/2	36
81RB 37				1.551 7/2+, 9/2+	37

81RE 38						1.554	1/2-, 3/2-	38		
81RE 39						1.584	(17/2)+	39	0.84 PS	6
81RE 40						1.596	(11/2-)	40		

81RE 41						1.721	(5/2)+	41		
81RE 42		1.726	1/2+					42		
81RE 43						1.739	(13/2)-	43	3.33 PS	35
81RE 44						1.775	(15/2+)	44		
81RE 45						1.804	1/2, 3/2	45		
81RE 46						1.848	1/2(+), 3/2	46		
81RE 47						1.920	(15/2+)	47		
81RE 48						1.968	(13/2-)	48		
81RE 49						2.072	(5/2)+	49		
81RE 50						2.165	(1/2+)	50		

81RE 51						2.205	(5/2)+	51		
81RE 52						2.264	+	52		
81RE 53						2.294	(15/2-)	53		
81RE 54						2.393	(5/2)+	54		
81RE 55						2.395	(15/2-)	55		
81RE 56		2.406	1/2+					56		
81RE 57						2.426	(13/2-)	57		
81RE 58						2.576	(17/2-)	58	1.4 PS	3
81RE 59						2.598		59		
81RE 60						2.600	(15/2-)	60		

81RE 61						2.608	(21/2)+	61	0.34 PS	6
81RE 62						2.636	(15/2-)	62		
81RE 63						2.638	3/2+, 5/2+	63		
81RE 64						2.656	(17/2-)	64	1 PS	GT
81RE 65						2.697	(17/2-)	65		
81RE 66						2.710	(19/2+)	66		
81RE 67						2.760	(17/2-)	67		
81RE 68		2.801	1/2+					68		
81RE 69						2.812	3/2+, 5/2+	69		
81RE 70						2.907	3/2+, 5/2+	70		

81RE 71						2.998	(19/2-)	71		
81RE 72						3.031	3/2+, 5/2+	72		
81RE 73						3.056	(19/2-)	73		
81RE 74						3.069	(19/2-, 21/2+)	74		
81RE 75						3.193	(19/2-)	75		
81RE 76						3.242	(5/2)+	76		
81RE 77						3.287	(19/2-)	77		
81RE 78						3.295	(21/2-)	78	1.6 PS	7
81RE 79						3.302	3/2+, 5/2+	79		
81RE 80						3.427	(21/2-)	80	1.0 PS	4

81RE 81						3.497	(21/2-)	81	1 PS	GT
81RE 82						3.666	(19/2, 21/2, 23/2)	82		

81RB 83			3.766	(25/2)+	83	0.17 PS	4
81RB 84			3.956	(23/2-)	84	1.11 PS	14
81RB 85			3.993	(23/2-)	85		
81RB 86			4.317	(25/2-)	86	0.25 PS	5
81RB 87			4.496	(25/2-)	87		
81RB 88			4.591	(25/2-)	88		

S-alpha=	4.647	(0.006)					

S-p	=	4.852	(0.005)				

81RB 89			5.062	(27/2-)	89	0.49 PS	14
81RB 90			5.072	(29/2)+	90	0.18 PS	LT

81RB 91			5.243	(27/2-)	91		
81RB 92			5.498	(29/2-)	92	0.24 PS	6
81RB 93			5.645	(29/2-)	93		
81RB 94			5.932	(29/2-)	94		
81RB 95			6.259	(31/2-)	95		
81RB 96			6.565	(33/2+)	96		
81RB 97			6.683	(31/2-)	97		
81RB 98			6.795	(33/2)-	98	0.24 PS	LT
81RB 99			6.905	(33/2-)	99		
81RB 100			7.521	(35/2-)	100		

81RB 101			8.195	(37/2-)	101		
81RB 102			8.240	(37/2+)	102		
81RB 103			9.741	(41/2-)	103		

S-p = 4.852 (0.005)-----
S-n = 11.353 (0.005)-----
S-2p = 13.967 (0.005)-----
S-2n = 20.797 (0.005)-----
S-alpha= 4.647 (0.006)-----

S+p = -7.842 (0.008)
S+n = -8.802 (0.006)
S+2p = -11.327 (0.019)
S+2n = -19.757 (0.005)
S+alpha = -4.810 (0.020)

gap p = -2.990 (0.009)
gap n = 2.550 (0.008)
gap 2p = 2.640 (0.020)
gap 2n = 1.040 (0.008)
gap alpha = -0.164 (0.020)