

^{87}Rb $Z = 37$ $N = 50$ adopted link ENSDF link

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

BE = 757.856 (0.000) MeV

Qbeta- = 0.282 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
87RB 1			0.000	3/2-	1 4.97E+10 Y3
87RB 2			0.403	5/2-	2 0.08 NS +9-5
87RB 3			0.845	1/2-	3 101 FS +9-11
87RB 4				1.349	4
87RB 5			1.390	3/2-	5 0.19 PS +5-3
87RB 6			1.463	1/2-	6 0.21 PS +12-6
87RB 7	1.578	9/2+			7 6 NS 1
87RB 8				1.578	8 1/2-,3/2-
87RB 9			1.741	3/2-	9
87RB 10				1.893	10 (1/2,3/2)-
87RB 11				1.950	11 (1/2)
87RB 12				2.014	12 (1/2,3/2,5/2)-
87RB 13				2.284	13 (1/2,3/2,5/2)-
87RB 14				2.378	14 (1/2-,3/2,5/2)
87RB 15				2.379	15 (+)
87RB 16				2.398	16 1/2-,3/2-
87RB 17				2.414	17 (3/2-)
87RB 18				2.415	18 (7/2,9/2)+
87RB 19				2.530	19 1/2-,3/2-
87RB 20				2.555	20 3/2+,5/2+
87RB 21				2.731	21 7/2+,9/2+
87RB 22				2.811	22 3/2+,5/2+
87RB 23				2.961	23 (3/2,5/2)+
87RB 24				2.974	24 7/2+,9/2+
87RB 25				3.001	25 (11/2)+
87RB 26				3.005	26 (1/2,3/2,5/2)+
87RB 27				3.043	27 (1/2,3/2,5/2)
87RB 28				3.055	28 3/2,5/2,7/2-
87RB 29	3.060	1/2+			29 24.4 FS +24-21
87RB 30				3.099	30 (13/2)+
87RB 31				3.308	31 3/2+,5/2+
87RB 32				3.338	32 1/2-,3/2-
87RB 33				3.356	33
87RB 34				3.409	34 (13/2+)
87RB 35				3.411	35
87RB 36				3.436	36
87RB 37				3.480	37 (7/2,9/2)+

87RB	38				3.534		38
87RB	39				3.586	-	39
87RB	40				3.618	+	40

87RB	41				3.644	(15/2+)	41
87RB	42				3.685	(7/2,9/2)+	42
87RB	43				3.692	1/2-,3/2-&(5/2)-	43
87RB	44				3.702	(1/2,3/2,5/2)-	44
87RB	45				3.744		45
87RB	46				3.767	1/2-,3/2-	46
87RB	47				3.824	-	47
87RB	48	3.837	1/2+				48 3.9 FS +4-3
87RB	49				3.910	+	49
87RB	50				3.958	-	50

87RB	51				3.974	3/2+,5/2+	51
87RB	52				4.014		52
87RB	53				4.029	-	53
87RB	54				4.057		54
87RB	55				4.068		55
87RB	56				4.090		56
87RB	57				4.106	-	57
87RB	58				4.146	3/2+,5/2+	58
87RB	59				4.151	(17/2+)	59
87RB	60				4.153	-	60

87RB	61				4.209	-	61
87RB	62				4.266		62
87RB	63				4.314		63
87RB	64				4.379	3/2+,5/2+	64
87RB	65				4.492	3/2+,5/2+	65
87RB	66				4.681	1/2-,3/2-	66
87RB	67				4.855	(19/2+)	67
87RB	68				4.862	(1/2+)&(3/2+,5/2	68+)
87RB	69	4.941	1/2+				69
87RB	70				5.026	(21/2+)	70

87RB	71				5.118	3/2+,5/2+	71
87RB	72	5.196	1/2+				72
87RB	73				5.233	3/2+,5/2+	73
87RB	74				5.316	3/2+,5/2+	74
87RB	75				5.347	3/2+,5/2+	75
87RB	76				5.481	(23/2+)	76
87RB	77				5.491	3/2+,5/2+	77
87RB	78				5.542	(1/2+)&(3/2+,5/2	78+)
87RB	79	5.634	1/2+				79
87RB	80	5.750	1/2+				80

87RB	81				5.790		81
87RB	82				5.802	(1/2+)&(3/2+,5/2	82+)

87RB 83					5.845	3/2+,5/2+	83
87RB 84					5.884	3/2+,5/2+	84
87RB 85					5.978	3/2+,5/2+	85
87RB 86		6.018	1/2+				86
87RB 87					6.089	3/2+,5/2+	87
87RB 88		6.176	1/2+				88
87RB 89					6.206	3/2+,5/2+	89
87RB 90					6.307	3/2+,5/2+	90

87RB 91					6.346		91
87RB 92					6.375	(1/2+)&(3/2+,5/2)	92+
87RB 93		6.468	1/2+				93
87RB 94					6.512	3/2+,5/2+	94
87RB 95		6.548	1/2+				95
87RB 96					6.565		96
87RB 97					6.618	3/2+,5/2+	97
87RB 98					6.652	3/2+,5/2+	98
87RB 99					6.744	3/2+,5/2+	99
87RB 100					6.791	(1/2+)&(3/2+,5/2100+)	

87RB 101					6.821		101
87RB 102		6.838	1/2+				102
87RB 103		6.989	1/2+				103
87RB 104					7.242		104

S-p = 8.621 (0.000)-----
S-n = 9.922 (0.000)-----
S-2p = 20.600 (0.003)-----
S-2n = 18.573 (0.000)-----
S-alpha= 8.009 (0.004)-----

S+p = -10.613 (0.000)
S+n = -6.082 (0.000)
S+2p = -17.691 (0.000)
S+2n = -13.257 (0.005)
S+alpha = -4.178 (0.002)

gap p = -1.992 (0.000)
gap n = 3.840 (0.000)
gap 2p = 2.909 (0.003)
gap 2n = 5.316 (0.005)
gap alpha = 3.831 (0.004)