

$^{89}\text{Rb}$        $Z = 37$        $N = 52$       adopted link      ENSDF link

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

BE = 771.113 ( 0.005) MeV

Qbeta- = 4.497 ( 0.005) MeV

	Energy T	J+	J-	J-other	T1/2
89RB 1			0.000	3/2-	1 15.32 M 10
89RB 2				0.221 5/2(-)	2
89RB 3				0.497 (1/2-)	3
89RB 4				0.577 (3/2,5/2,7/2-)	4
89RB 5				0.586 7/2(-)	5
89RB 6				0.867 (1/2:7/2-)	6
89RB 7				0.931 (5/2+,7/2-)	7
89RB 8				0.997 (7/2-)	8
89RB 9				1.195 (9/2+)	9 8 NS 2
89RB 10				1.324 (3/2-,5/2-)	10
89RB 11				1.340 (3/2-,5/2,7/2-)	11
89RB 12				1.488 (3/2-,5/2,7/2-)	12
89RB 13				1.530 (3/2-,5/2,7/2-)	13
89RB 14				1.694 (5/2+)	14
89RB 15				1.822 (5/2+,7/2-)	15
89RB 16				1.865 (5/2+)	16
89RB 17				1.999 (3/2-,5/2-)	17
89RB 18				2.004 (13/2+)	18
89RB 19				2.141 (3/2-,5/2,7/2-)	19
89RB 20				2.160 (5/2+)	20
89RB 21				2.219	21
89RB 22				2.270	22
89RB 23				2.365	23
89RB 24				2.388 (1/2-:7/2-)	24
89RB 25				2.401 1/2,3/2,5/2(-)	25
89RB 26				2.512	26
89RB 27				2.598 (3/2-,5/2)	27
89RB 28				2.782 (3/2-,5/2)	28
89RB 29				2.789 (3/2-,5/2,7/2-)	29
89RB 30				2.840 (17/2+)	30
89RB 31				2.866 (3/2-,5/2)	31
89RB 32				3.018 1/2,3/2,5/2	32
89RB 33				3.250	33
89RB 34				3.328 (3/2-,5/2)	34
89RB 35				3.361 (3/2-,5/2)	35
89RB 36				3.371 1/2,3/2,5/2	36
89RB 37				3.465 (3/2-,5/2)	37

89RB 38				3.533	(3/2-, 5/2)	38
89RB 39				3.717	(5/2+)	39
89RB 40				3.720	(3/2-, 5/2)	40
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89RB 41				3.834	1/2, 3/2, 5/2	41
89RB 42				3.899	1/2, 3/2, 5/2	42
89RB 43				3.966	1/2(+), 3/2, 5/2	43
89RB 44				3.977	1/2, 3/2, 5/2	44
89RB 45				4.033	(21/2+)	45
89RB 46				4.049	(3/2-, 5/2)	46
89RB 47				4.058		47
89RB 48				4.081	(1/2+, 3/2+, 5/2+)	48)
89RB 49				4.144	(1/2+, 3/2+, 5/2+)	49)
89RB 50				4.199	1/2, 3/2, 5/2	50
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89RB 51				4.217	1/2, 3/2, 5/2	51
89RB 52				4.231	1/2(+), 3/2, 5/2	52
89RB 53				4.307	(3/2-, 5/2)	53
89RB 54				4.339	(3/2-, 5/2)	54
89RB 55				4.340	(1/2+, 3/2+, 5/2+)	55)
89RB 56				4.367	(5/2+)	56
89RB 57				4.405	(3/2+, 5/2+)	57
89RB 58				4.478	(1/2+, 3/2+, 5/2+)	58)
89RB 59				4.488	(5/2+)	59
89RB 60				4.631	(5/2+)	60
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89RB 61				4.686	(1/2+, 3/2+, 5/2+)	61)
89RB 62				5.328	(23/2+)	62
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S-alpha=	5.562	( 0.006)	-----			
89RB 63				5.606	(25/2+)	63
89RB 64				6.700		64
89RB 65				6.705		65
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S-n =	7.175	( 0.005)	-----			
89RB 66				7.391		66
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S-p =	9.310	( 0.006)	-----			
S-n =	7.175	( 0.005)	-----			
S-2p =	22.399	( 0.006)	-----			
S-2n =	13.257	( 0.005)	-----			
S-alpha=	5.562	( 0.006)	-----			
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S+p =	-11.528	( 0.006)				
S+n =	-5.725	( 0.008)				
S+2p =	-19.217	( 0.006)				
S+2n =	-12.175	( 0.010)				
S+alpha =	-4.940	( 0.012)				
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gap p =	-2.217	( 0.008)				
gap n =	1.450	( 0.010)				

gap 2p = 3.182 ( 0.009)  
gap 2n = 1.082 ( 0.011)  
gap alpha = 0.622 ( 0.013)