

$^{84}\text{Rb}$        $Z = 37$        $N = 47$       adopted link      ENSDF link

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

BE = 728.803 ( 0.002) MeV  
 Qbeta- = 0.891 ( 0.003) MeV  
 Qbeta+ = 2.680 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2	
84RB	1		0.000	2-		1 32.82 D 7
84RB	2		0.248	3-		2 0.31 NS 6
84RB	3		0.464	6-		3 20.26 M 4
84RB	4		0.467	5-		4 9 NS 2
84RB	5				0.472 (4-)	5
84RB	6				0.543 (5+)	6 11 NS 1
84RB	7				0.564 (2,3,4)+	7
84RB	8				0.573 (6+)	8
84RB	9				0.602 4-,5,6	9
84RB	10				0.614 (4,5)-	10
84RB	11				0.620 (7+)	11
84RB	12				0.678 (7-)	12
84RB	13				0.703 (8+)	13
84RB	14				0.718	14
84RB	15				0.768 2-,3-	15
84RB	16				0.797	16
84RB	17				0.832 (2,3,4)+	17
84RB	18				0.890 (2,3,4)+	18
84RB	19				0.929 (2,3,4)+	19
84RB	20				0.941 (2,3,4)-	20
84RB	21				0.957	21
84RB	22				1.007 (1)+	22
84RB	23				1.066 (1+,2+,3+)	23
84RB	24				1.136 (2,3,4)+	24
84RB	25				1.157 (6+,7,8+)	25
84RB	26				1.167	26
84RB	27				1.218 (1+)	27
84RB	28				1.286 (2,3,4)+	28
84RB	29				1.334 (9+)	29 0.59 PS 10
84RB	30				1.398 (8-)	30
84RB	31				1.662 (8-)	31
84RB	32				1.745 (7-)	32
84RB	33				1.758 (10+)	33 1.11 PS 14
84RB	34				1.872 (9+)	34
84RB	35				2.068 (9-)	35
84RB	36				2.429 (10+)	36

84RB 37				2.462	(9-)	37			
84RB 38				2.469	(10-)	38			
84RB 39				2.477	(11+)	39	0.194	PS	21
84RB 40				2.711	(10-)	40			
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84RB 41				2.918	(11+)	41			
84RB 42				2.937	(10-)	42			
84RB 43				2.972	(9-)	43			
84RB 44				3.028	(10-)	44			
84RB 45				3.108	(10-)	45			
84RB 46				3.122	(11-)	46			
84RB 47				3.167	(12+)	47	0.83	PS	LT
84RB 48				3.395	(11-)	48			
84RB 49				3.408	(12+)	49			
84RB 50				3.561	(12-)	50			
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84RB 51				3.681	(12-)	51			
84RB 52				3.721	(12-)	52			
84RB 53				3.786	(13-)	53			
84RB 54				4.131	(13-)	54	0.28	PS	5
84RB 55				4.167	(13-)	55	0.57	PS	8
84RB 56				4.246		56			
84RB 57				4.715	(14-)	57	0.263	PS	21
84RB 58				4.801	(14-)	58	0.049	PS	14
84RB 59				4.825	(14+)	59			
84RB 60				5.254	(15-)	60	0.44	PS	6
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84RB 61				5.372	(15-)	61	0.173	PS	28
84RB 62				5.933	(16-)	62	0.076	PS	14
84RB 63				6.095	(16-)	63	0.111	PS	28
S-alpha=	6.295	( 0.002)	-----						
84RB 64				6.472	(17-)	64	0.36	PS	LT
84RB 65				6.861	(17-)	65	0.31	PS	LT
S-p =	7.057	( 0.002)	-----						
84RB 66				7.383	(18-)	66			
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S-p =	7.057	( 0.002)	-----						
S-n =	8.760	( 0.003)	-----						
S-2p =	16.838	( 0.002)	-----						
S-2n =	19.714	( 0.004)	-----						
S-alpha=	6.295	( 0.002)	-----						
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S+p =	-8.633	( 0.004)							
S+n =	-10.480	( 0.002)							
S+2p =	-14.102	( 0.014)							
S+2n =	-19.131	( 0.002)							
S+alpha =	-6.965	( 0.003)							
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gap p =	-1.576	( 0.004)							

gap n = -1.720 ( 0.004)  
gap 2p = 2.736 ( 0.015)  
gap 2n = 0.583 ( 0.004)  
gap alpha = -0.670 ( 0.004)