

$^{82}\text{Rb}$        $Z = 37$        $N = 45$       adopted link      ENSDF link

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

BE = 709.089 ( 0.003) MeV

Qbeta+ = 4.404 ( 0.003) MeV

	Energy	T	J+	J-	J-other	T1/2
82RB	1	0.000	1+			1 1.2575 M 2
82RB	2			0.069 5-		2 6.472 H 6
82RB	3				0.089 (2-)	3 1.66 NS 14
82RB	4				0.190 3(-)	4 0.21 NS 14
82RB	5	0.192	6+			5 12.3 NS 6
82RB	6				0.210	6
82RB	7				0.226 (2)	7 0.28 NS 14
82RB	8				0.245 (3-)	8 0.35 NS 14
82RB	9				0.256 7(+)	9 5 NS LT
82RB	10				0.267 (2+)	10
82RB	11				0.302 8(+)	11 5 NS LT
82RB	12				0.310 (4-)	12
82RB	13				0.340 (3)	13
82RB	14				0.394 (6-)	14
82RB	15				0.440 (5-)	15
82RB	16			0.485 6-		16
82RB	17				0.534 (4)	17
82RB	18				0.539 (6)	18
82RB	19				0.576 (5)	19
82RB	20				0.609 (5)	20
82RB	21				0.618	21
82RB	22				0.661 (5,6)	22
82RB	23				0.692 (7-)	23
82RB	24				0.705 (6)	24
82RB	25				0.735 (7)	25
82RB	26				0.773	26
82RB	27				0.864 9(+)	27 0.19 PS 5
82RB	28				0.900 (7)	28
82RB	29				1.026 (8+)	29
82RB	30				1.085 (8-)	30
82RB	31				1.212 (9+)	31
82RB	32				1.282 (10+)	32 0.68 PS 6
82RB	33				1.357 (8-)	33
82RB	34				1.704 10(+)	34
82RB	35				1.734 (9-)	35
82RB	36				1.844 (9-)	36
82RB	37				1.903 11(+)	37 0.38 PS LT

82RB	38				1.964	10(+)	38		
82RB	39				2.292	11(+)	39		
82RB	40				2.396	(10-)	40		
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82RB	41				2.553	12(+)	41	0.62	PS LT
82RB	42				2.618	(11-)	42		
82RB	43				2.711	(11-)	43		
82RB	44				2.961		44		
82RB	45				3.029	(12-)	45	0.40	PS 9
82RB	46				3.043		46		
82RB	47				3.185	13(+)	47		
82RB	48				3.502	(13-)	48	0.41	PS 8
82RB	49				3.520		49		
82RB	50				3.651	(13-)	50		
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82RB	51				3.671		51		
82RB	52				4.017	14(+)	52		
82RB	53				4.049	(14-)	53	0.24	PS 5
82RB	54				4.532	(15+)	54		
82RB	55				4.718	(15-)	55	0.69	PS LT
S-alpha=	5.161	( 0.005)	-----						
82RB	56				5.486	(16-)	56		
82RB	57				5.591	(16+)	57		
S-p	=	5.781	( 0.003)	-----					
82RB	58				6.014	(17+)	58		
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S-p	=	5.781	( 0.003)	-----					
S-n	=	8.802	( 0.006)	-----					
S-2p	=	14.877	( 0.003)	-----					
S-2n	=	20.155	( 0.004)	-----					
S-alpha=	5.161	( 0.005)	-----						
S+p	=	-7.899	( 0.007)						
S+n	=	-10.954	( 0.004)						
S+2p	=	-12.285	( 0.005)						
S+2n	=	-19.714	( 0.004)						
S+alpha	=	-5.520	( 0.014)						
gap p	=	-2.118	( 0.008)						
gap n	=	-2.152	( 0.007)						
gap 2p	=	2.592	( 0.006)						
gap 2n	=	0.441	( 0.005)						
gap alpha	=	-0.360	( 0.015)						