

^{77}Rb $Z = 37$ $N = 40$ adopted link ENSDF link

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

BE = 657.375 (0.001) MeV

Qbeta+ = 5.339 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2		
77RB 1			0.000	3/2-		1 3.78 M 4	
77RB 2			0.145	5/2-		2 0.54 NS 3	
77RB 3					0.147	5/2(+)	3 5.1 NS 4
77RB 4					0.307	(7/2+)	4 0.39 NS 3
77RB 5					0.332	9/2(+)	5 0.687 NS 25
77RB 6			0.368	7/2-		6 29.1 PS 21	
77RB 7			0.615	9/2-		7 8.0 PS 6	
77RB 8					0.788		8
77RB 9					0.804	(11/2+)	9 3.6 PS 7
77RB 10					0.833	(13/2+)	10 6.4 PS 4
77RB 11			0.944	11/2-		11 2.9 PS 3	
77RB 12					1.154	(9/2+)	12
77RB 13					1.249		13
77RB 14					1.280	(13/2-)	14 0.96 PS 12
77RB 15					1.541		15
77RB 16					1.576	(17/2+)	16 0.65 PS 3
77RB 17					1.590	(15/2+)	17 0.62 PS 4
77RB 18					1.717	(15/2-)	18 0.46 PS 3
77RB 19					1.883	(13/2+)	19
77RB 20					2.125	(17/2-)	20 0.32 PS 3
77RB 21					2.149	(11/2-)	21
77RB 22					2.388	(13/2-)	22
77RB 23					2.391		23
77RB 24					2.529	(21/2+)	24 0.252 PS 14
77RB 25					2.597	(17/2+)	25
77RB 26					2.631	(19/2+)	26 0.132 PS 21
77RB 27					2.668	(15/2-)	27
77RB 28					2.681	(19/2-)	28 0.23 PS 3
77RB 29					2.991	(17/2-)	29
S-p =	3.106 (0.004)						
77RB 30					3.134	(21/2-)	30 0.17 PS 3
77RB 31					3.230	(19/2-)	31
77RB 32					3.343	(19/2-)	32
77RB 33					3.354		33
77RB 34					3.411	(21/2+)	34 0.64 PS 3
S-alpha=	3.610 (0.007)						
77RB 35					3.674	(25/2+)	35 0.096 PS 17

77RB 36				3.701	(21/2-)	36	
77RB 37				3.776	(21/2-)	37	
77RB 38				3.823	(23/2-)	38	0.118 PS 21
77RE 39				3.895	(23/2+)	39	0.069 PS 14
77RE 40				4.123	(23/2-)	40	

77RB 41				4.217	(23/2-)	41	
77RB 42				4.304	(25/2-)	42	0.111 PS 7
77RE 43				4.330	(25/2+)	43	0.374 PS 21
77RE 44				4.418		44	
77RE 45				4.712	(25/2-)	45	
77RE 46				4.759	(25/2-)	46	
77RB 47				5.006	(29/2+)	47	0.049 PS 7
77RB 48				5.104	(27/2-)	48	0.146 PS 14
77RE 49				5.176	(27/2-)	49	
77RE 50				5.318	(27/2-)	50	

77RB 51				5.345	(27/2+)	51	0.21 PS LE
77RB 52				5.441	(29/2+)	52	0.201 PS 14
77RB 53				5.478		53	
77RE 54				5.639	(29/2-)	54	0.17 PS LE
77RE 55				5.681		55	
77RE 56				5.852	(29/2-)	56	
77RB 57				5.956	(29/2-)	57	
77RB 58				6.299	(31/2-)	58	0.24 PS LE
77RE 59				6.525	(33/2+)	59	0.028 PS 7
77RE 60				6.616	(31/2-)	60	

77RB 61				6.642	(31/2-)	61	
77RB 62				6.752	(33/2+)	62	0.118 PS 14
77RB 63				6.807		63	
77RE 64				6.927	(31/2+)	64	
77RE 65				7.087	(33/2-)	65	
77RE 66				7.198	(33/2-)	66	
77RB 67				7.358	(33/2-)	67	
77RB 68				7.506		68	
77RE 69				7.635	(35/2-)	69	
77RE 70				8.080	(35/2-)	70	

77RB 71				8.168	(37/2+)	71	0.13 PS LE
77RB 72				8.264		72	
77RB 73				8.300	(35/2-)	73	
77RB 74				8.317	(37/2+)	74	0.042 PS 14
77RE 75				8.520	(37/2-)	75	
77RE 76				8.627	(35/2+)	76	
77RB 77				8.832	(37/2-)	77	
77RB 78				8.892	(37/2-)	78	
77RB 79				8.955	(37/2-)	79	
77RE 80				9.146	(39/2-)	80	

77RB	81				9.794		81
77RB	82				9.817	(41/2+)	82

S-p = 3.106 (0.004)-----
 S-n = 12.423 (0.002)-----
 S-2p = 10.302 (0.004)-----
 S-2n = 23.754 (0.002)-----
 S-alpha= 3.610 (0.007)-----

S+p = -5.632 (0.008)
 S+n = -10.176 (0.003)
 S+2p = -7.550 (0.080)
 S+2n = -22.115 (0.002)
 S+alpha = -3.307 (0.006)

gap p = -2.527 (0.009)
 gap n = 2.247 (0.004)
 gap 2p = 2.751 (0.080)
 gap 2n = 1.640 (0.003)
 gap alpha = 0.302 (0.009)