

^{102}Rh $Z = 45$ $N = 57$ adopted link ENSDF link

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

BE = 874.852 (0.006) MeV
 Qbeta- = 1.120 (0.006) MeV
 Qbeta+ = 2.323 (0.006) MeV

	Energy T	J+	J-	J-other	T1/2
102RH 1				0.000 (1-,2-)	1 207.3 D 17
102RH 2				0.042 2(-)	2 18.9 NS 4
102RH 3				0.076	3
102RH 4				0.105 (1+,2+,3+)	4 1.0 NS 3
102RH 5				0.124 (1-,2-,3-)	5 0.4 NS 2
102RH 6				0.141 6(+)	6 3.742 Y 10
102RH 7				0.154 5(+)	7
102RH 8				0.156	8 0.3 NS LT
102RH 9				0.179 (3)+	9 1.04 NS 21
102RH 10				0.207	10 0.3 NS LT
102RH 11				0.209	11 0.34 NS 21
102RH 12				0.242 (7+)	12
102RH 13				0.260	13 0.3 NS LT
102RH 14				0.264 (5+)	14 0.4 NS LT
102RH 15				0.292	15 0.3 NS LT
102RH 16				0.297 (7+)	16
102RH 17				0.302	17 0.3 NS LT
102RH 18				0.306	18 0.3 NS LT
102RH 19				0.346	19 0.7 NS LT
102RH 20				0.359	20
102RH 21				0.360	21 0.6 NS 3
102RH 22				0.365	22 0.3 NS LT
102RH 23				0.379 6(+)	23
102RH 24				0.380 (1-,2-,3-)	24
102RH 25				0.399 (5,6,7)	25 0.7 NS LT
102RH 26				0.410	26 0.3 NS LT
102RH 27				0.428	27 0.3 NS LT
102RH 28				0.431	28 0.3 NS LT
102RH 29				0.449	29 0.4 NS LT
102RH 30				0.451	30
102RH 31				0.474	31
102RH 32	0.477	7+			32
102RH 33				0.491 (3-,4-,5-)	33
102RH 34				0.525	34
102RH 35				0.542	35 0.3 NS LT
102RH 36				0.544	36 0.7 NS LT

102RH	37					0.546		37	0.3 NS	LT
102RH	38	0.570	7+					38		
102RH	39					0.576		39	0.3 NS	LT
102RH	40					0.599		40	0.3 NS	LT

102RH	41					0.601		41		
102RH	42					0.616	(7,8,9)	42		
102RH	43					0.632		43		
102RH	44					0.646		44	0.4 NS	LT
102RH	45					0.683	6(-)	45		
102RH	46	0.708	8+					46		
102RH	47					0.731	7(-)	47		
102RH	48					0.761	8(-)	48		
102RH	49	0.846	8+					49		
102RH	50					0.907	9(-)	50		

102RH	51	1.042	9+					51		
102RH	52	1.187	9+					52		
102RH	53					1.200		53		
102RH	54					1.270	10(-)	54		
102RH	55					1.576	11(-)	55		
102RH	56					1.599	(10+)	56		
102RH	57					1.670		57		
102RH	58					1.840		58		
102RH	59					2.038	12(-)	59		
102RH	60					2.166	(11+)	60		

102RH	61					2.358	(12+)	61		
102RH	62					2.477	13(-)	62		

S-alpha= 2.776 (0.007)-----										
102RH	63					2.965	14(-)	63		
102RH	64					3.266	(14+)	64		
102RH	65					3.494	15(-)	65		
102RH	66					3.505	(13+)	66		
102RH	67					3.539	(13+)	67		
102RH	68					3.832	(14+)	68		
102RH	69					3.918	(14+)	69		
102RH	70					4.022	16(-)	70		

102RH	71					4.158	(15+)	71		
102RH	72					4.198		72		
102RH	73					4.264	(15+)	73		
102RH	74					4.313	(16+)	74		
102RH	75					4.589	(16+)	75		
102RH	76					4.626	17(-)	76		
102RH	77					4.637	(16+)	77		
102RH	78					5.002	(17+)	78		
102RH	79					5.064	(17+)	79		
102RH	80					5.233	18(-)	80		

102RH 81				5.461	(18+)	81
102RH 82				5.539	(18+)	82
102RH 83				5.565	(18+)	83
102RH 84				5.927	19(-)	84
102RH 85				6.024	(19+)	85
102RH 86				6.089	(19+)	86
S-p = 6.114 (0.006)-----						
102RH 87				6.513	20(-)	87
102RH 88				6.615	(20+)	88
102RH 89				6.687	(20+)	89
102RH 90				7.176	(21+)	90

102RH 91				7.309	21(-)	91
S-n = 7.442 (0.009)-----						
102RH 92				7.798	22(-)	92
102RH 93				7.845	(22+)	93
102RH 94				7.991	(22+)	94
102RH 95				8.483	(23+)	95
102RH 96				8.694	23(-)	96
102RH 97				8.722		97
102RH 98				9.110	24(-)	98
102RH 99				9.249	(24+)	99
102RH 100				9.380	(24+)	100

102RH 101				9.816	(25+)	101

S-p = 6.114 (0.006)-----						
S-n = 7.442 (0.009)-----						
S-2p = 15.340 (0.007)-----						
S-2n = 17.335 (0.019)-----						
S-alpha= 2.776 (0.007)-----						

S+p = -7.963 (0.006)						
S+n = -9.320 (0.007)						
S+2p = -12.911 (0.008)						
S+2n = -16.319 (0.007)						
S+alpha = -2.584 (0.007)						

gap p = -1.849 (0.009)						
gap n = -1.877 (0.011)						
gap 2p = 2.429 (0.010)						
gap 2n = 1.016 (0.020)						
gap alpha = 0.192 (0.010)						