

^{105}Rh $Z = 45$ $N = 60$ adopted link ENSDF link

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

BE = 900.134 (0.002) MeV

Qbeta- = 0.567 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
105RH 1	0.000	7/2+			1 35.341 H 19
105RH 2			0.130 1/2-		2 42.8 S 3
105RH 3	0.149	9/2+			3 0.3 NS LE
105RH 4			0.393 3/2-		4
105RH 5			0.456 5/2-		5
105RH 6	0.469	3/2+			6 0.4 NS LE
105RH 7				0.474 (7/2,9/2)+	7
105RH 8	0.499	5/2+			8
105RH 9				0.524	9
105RH 10	0.603	11/2+			10
105RH 11	0.639	7/2+			11
105RH 12	0.724	5/2+			12 0.2 NS LE
105RH 13	0.734	11/2+			13
105RH 14			0.762 3/2-		14
105RH 15				0.783 (3/2)-	15
105RH 16	0.786	1/2+			16 0.4 NS LE
105RH 17	0.795	13/2+			17
105RH 18	0.806	3/2+			18 0.2 NS LE
105RH 19				0.817 (5/2-,7/2-)	19
105RH 20	0.830	9/2+			20
105RH 21				0.834 (11/2)	21
105RH 22				0.843	22
105RH 23			0.866 5/2-		23
105RH 24				0.869 (5/2)	24
105RH 25			0.894 7/2-		25
105RH 26				0.924	26
105RH 27	0.969	5/2+			27
105RH 28	0.978	9/2+			28
105RH 29			0.979 9/2-		29
105RH 30	1.019	7/2+			30
105RH 31				1.147 3/2-,5/2-	31
105RH 32				1.190	32
105RH 33	1.207	13/2+			33
105RH 34				1.215 3/2-,5/2-	34
105RH 35			1.297 1/2-		35
105RH 36				1.316 (1/2:7/2+)	36
105RH 37	1.321	5/2+			37

105RH	38	1.345	3/2+					38
105RH	39					1.351	3/2-, 5/2-	39
105RH	40					1.355	(9/2)+	40

105RH	41	1.366	15/2+					41
105RH	42	1.377	3/2+					42
105RH	43					1.393		43
105RH	44	1.400	11/2+					44
105RH	45					1.406	(3/2-:11/2-)	45
105RH	46					1.441	(3/2+, 5/2, 7/2+)	46
105RH	47			1.462	3/2-			47
105RH	48					1.475	(5/2+:13/2+)	48
105RH	49					1.487	(3/2+)	49
105RH	50					1.519	(7/2:15/2)	50

105RH	51					1.521	(5/2-, 7/2-)	51
105RH	52					1.530	(3/2-:11/2-)	52
105RH	53					1.565	(11/2-)	53
105RH	54					1.577		54
105RH	55	1.605	17/2+					55
105RH	56					1.608		56
105RH	57			1.647	13/2-			57
105RH	58					1.649	3/2-, 5/2-	58
105RH	59	1.677	15/2+					59
105RH	60					1.690	(7/2-, 9/2-)	60

105RH	61					1.698	(3/2+, 5/2)	61
105RH	62					1.709	(3/2+, 5/2)	62
105RH	63					1.721	(5/2+)	63
105RH	64					1.745	(7/2+:15/2+)	64
105RH	65					1.758	7/2-, 9/2-	65
105RH	66					1.765	(5/2+, 3/2+)	66
105RH	67					1.781	(5/2-:13/2-)	67
105RH	68					1.810	(5/2, 3/2+)	68
105RH	69					1.830	(5/2+)	69
105RH	70					1.849	3/2-, 5/2-	70

105RH	71					1.864	(3/2+, 5/2, 7/2-)	71
105RH	72					1.887	3/2-, 5/2-	72
105RH	73					1.904	(3/2-, 5/2-)	73
105RH	74					1.906	(9/2+:17/2+)	74
105RH	75					1.913	3/2+, 5/2+	75
105RH	76					1.936	7/2-, 9/2-	76
105RH	77	1.937	15/2+					77
105RH	78					1.957		78
105RH	79					2.005	3/2-, 5/2, 7/2+	79
105RH	80			2.019	13/2-			80

105RH	81					2.033	7/2-, 9/2-	81
105RH	82					2.061	(7/2-, 9/2-)	82

105RH 83				2.083	(7/2-, 9/2-)	83
105RH 84				2.109	(3/2-, 5/2-)	84
105RH 85				2.137	(7/2-, 9/2-)	85
105RH 86				2.160	(3/2-, 5/2-)	86
105RH 87				2.164	(17/2+)	87
105RH 88			2.170	15/2-		88
105RH 89		2.244	19/2+			89
105RH 90			2.311	17/2-		90

105RH 91				2.330	(15/2)	91
105RH 92			2.396	17/2-		92
105RH 93			2.417	15/2-		93
105RH 94			2.477	17/2-		94
105RH 95			2.496	19/2-		95
105RH 96			2.513	17/2-		96
105RH 97		2.521	21/2+			97
105RH 98		2.594	19/2+			98
105RH 99				2.615	(19/2+)	99
105RH 100			2.646	19/2-		100

105RH 101			2.669	19/2-		101
105RH 102			2.719	21/2-		102
105RH 103			2.825	21/2-		103
105RH 104				2.891	(19/2)	104
105RH 105			2.914	21/2-		105
105RH 106		2.982	23/2+			106
105RH 107			2.993	23/2-		107
105RH 108			3.078	23/2-		108
105RH 109		3.198	25/2+			109
105RH 110			3.267	23/2-		110

105RH 111			3.308	25/2-		111
105RH 112				3.345	(23/2+)	112
105RH 113				3.470	(25/2-)	113
105RH 114		3.478	27/2+			114
105RH 115		3.537	25/2+			115
105RH 116				3.668	(25/2-)	116
105RH 117			3.769	27/2-		117
105RH 118		3.839	29/2+			118

S-alpha=	3.932	(0.024)	-----	-----	-----	-----
105RH 119		4.003	27/2+			119
105RH 120				4.092	(27/2-)	120

105RH 121				4.170	(27/2+)	121
105RH 122				4.183	(29/2-)	122
105RH 123		4.215	31/2+			123
105RH 124		4.299	29/2+			124
105RH 125				4.418	(29/2+)	125
105RH 126		4.690	31/2+			126
105RH 127		4.702	33/2+			127

105RH 128		5.081	33/2+					128
105RH 129		5.184	35/2+					129
105RH 130		5.525	35/2+					130

105RH 131		5.764	37/2+					131
105RH 132		6.021	37/2+					132
105RH 133		6.345	39/2+					133
105RH 134		6.567	39/2+					134
105RH 135		6.640	3/2+					135
105RH 136		6.775	1/2+					136
105RH 137		7.038	41/2+					137
S-p	=	7.044	(0.004)	-----				
105RH 138					7.080	3/2+,5/2+		138
105RH 139		7.156	41/2+					139
105RH 140					7.260	(1/2+)		140

105RH 141		7.713	43/2+					141
105RH 142		8.467	45/2+					142
105RH 143					8.524	(45/2+)		143
S-n	=	8.963	(0.003)	-----				
105RH 144					9.213	(47/2+)		144

S-p	=	7.044	(0.004)	-----				
S-n	=	8.963	(0.003)	-----				
S-2p	=	17.825	(0.010)	-----				
S-2n	=	15.962	(0.003)	-----				
S-alpha	=	3.932	(0.024)	-----				

S+p	=	-9.345	(0.003)					
S+n	=	-6.583	(0.006)					
S+2p	=	-15.133	(0.003)					
S+2n	=	-15.155	(0.012)					
S+alpha	=	-3.293	(0.003)					

gap p	=	-2.301	(0.004)					
gap n	=	2.380	(0.007)					
gap 2p	=	2.692	(0.011)					
gap 2n	=	0.807	(0.013)					
gap alpha	=	0.638	(0.024)					