

^{155}Sm $Z = 62$ $N = 93$ adopted link ENSDF link

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

BE = 1272.740 (0.001) MeV

Qbeta- = 1.627 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
155SM 1			0.000	3/2-	1 22.18 M 6
155SM 2	0.017	5/2+			2 2.8 US 5
155SM 3			0.053	5/2-	3
155SM 4	0.076	7/2+			4
155SM 5			0.128	7/2-	5
155SM 6	0.152	9/2+			6
155SM 7			0.221	9/2-	7
155SM 8	0.250	11/2+			8
155SM 9				0.337 (11/2-)	9
155SM 10	0.359	13/2+			10
155SM 11			0.426	5/2-	11
155SM 12			0.500	7/2-	12
155SM 13				0.538 (11/2-)	13 1.00 US 8
155SM 14				0.540	14
155SM 15				0.562	15
155SM 16				0.595 (9/2-)	16
155SM 17	0.618	3/2+			17
155SM 18	0.658	5/2+			18
155SM 19				0.716 (11/2-)	19
155SM 20				0.737 (7/2+)	20
155SM 21			0.778	3/2-	21
155SM 22			0.820	1/2-	22
155SM 23			0.821	5/2-	23
155SM 24			0.844	3/2-	24
155SM 25	0.866	3/2+			25
155SM 26	0.882	5/2+			26
155SM 27				0.903 (1/2+)	27
155SM 28			0.907	5/2-	28
155SM 29				0.916 (1/2-)	29
155SM 30				0.919 (7/2-)	30
155SM 31			0.931	3/2-	31
155SM 32			0.962	7/2-	32
155SM 33				0.968 (3/2+)	33
155SM 34				0.984 (5/2-)	34
155SM 35	1.011	5/2+			35
155SM 36				1.043	36
155SM 37				1.076	37

155SM	38	1.107	3/2+					38
155SM	39	1.154	5/2+					39
155SM	40			1.169	3/2-			40

155SM	41					1.180		41
155SM	42					1.218	(5/2-)	42
155SM	43					1.282	1/2+,3/2+	43
155SM	44	1.328	5/2+					44
155SM	45					1.336	(5/2)	45
155SM	46	1.362	3/2+					46
155SM	47					1.391	(5/2)	47
155SM	48					1.404	5/2	48
155SM	49					1.408	1/2+,3/2+	49
155SM	50					1.425	5/2	50

155SM	51					1.449		51
155SM	52					1.474	1/2-,3/2-	52
155SM	53					1.478	1/2+,3/2+	53
155SM	54					1.482	1/2+,3/2+	54
155SM	55					1.499	1/2+,3/2+	55
155SM	56					1.503	5/2	56
155SM	57					1.525	1/2-,3/2-	57
155SM	58	1.532	5/2+					58
155SM	59					1.548	1/2+,3/2+	59
155SM	60					1.567	1/2-,3/2-	60

155SM	61					1.571	1/2+,3/2+	61
155SM	62					1.585	1/2+,3/2+	62
155SM	63					1.601	1/2+,3/2+	63
155SM	64					1.615	1/2-,3/2-	64
155SM	65					1.619	1/2-,3/2-	65
155SM	66	1.659	5/2+					66
155SM	67					1.666	(5/2+)	67
155SM	68					1.671	1/2+,3/2+	68

S-alpha=		1.673 (0.002)						
155SM	69					1.678	(5/2+)	69
155SM	70					1.696	5/2	70

155SM	71					1.708	(5/2)	71
155SM	72					1.718	1/2-,3/2-	72
155SM	73					1.724	1/2,3/2	73
155SM	74					1.734	1/2+,3/2+,5/2+	74
155SM	75					1.752	1/2-,3/2-	75
155SM	76					1.774	1/2+,3/2+	76
155SM	77					1.788	1/2,3/2	77
155SM	78					1.805	1/2-,3/2-	78
155SM	79	1.821	5/2+					79
155SM	80	1.831	5/2+					80

155SM	81					1.833	1/2-,3/2-	81

155SM 82				1.857	1/2-, 3/2-	82
155SM 83				1.865	1/2+, 3/2+	83
155SM 84				1.876	1/2-, 3/2-	84
155SM 85				1.885	1/2+, 3/2+	85
155SM 86				1.890	1/2-, 3/2-	86
155SM 87	1.899	5/2+				87
155SM 88				1.905	1/2, 3/2	88
155SM 89				1.920	1/2+, 3/2+, 5/2+	89
155SM 90				1.926	1/2-, 3/2-	90

155SM 91				1.929	1/2-, 3/2-	91
155SM 92				1.954	1/2, 3/2	92
155SM 93				1.965	1/2, 3/2	93
155SM 94	1.979	5/2+				94
155SM 95				1.987	1/2+, 3/2+	95
155SM 96				2.010		96
155SM 97				2.043		97
155SM 98				2.066		98
155SM 99				2.094		99
155SM 100				2.113		100

155SM 101				2.122		101
155SM 102				2.180		102
155SM 103				2.209		103
155SM 104				2.245		104
155SM 105				2.302		105
155SM 106				2.344		106
155SM 107				2.363		107
155SM 108				2.382		108
155SM 109				2.400		109
155SM 110				2.431		110

155SM 111				2.446		111
155SM 112				2.480		112
155SM 113				2.513		113
155SM 114				2.547		114
155SM 115				2.566		115
155SM 116				2.584		116
155SM 117				2.599		117
155SM 118				2.627		118
155SM 119				2.670		119
155SM 120				2.719		120

155SM 121				2.785		121
155SM 122				2.829		122
155SM 123				2.860		123
155SM 124				2.887		124
155SM 125				2.917		125
155SM 126				2.945		126
155SM 127				2.960		127

155SM 128				3.020	128
155SM 129				3.034	129
155SM 130				3.075	130

155SM 131				3.096	131
155SM 132				3.127	132
155SM 133				3.165	133
155SM 134				3.201	134
155SM 135				3.216	135
155SM 136				3.261	136
155SM 137				3.281	137
155SM 138				3.300	138
155SM 139				3.330	139
155SM 140				3.350	140

155SM 141				3.362	141
155SM 142				3.400	142
155SM 143				3.420	143
155SM 144				3.450	144
155SM 145		5.807	1/2+		145

S-p = 9.214 (0.025)-----
S-n = 5.807 (0.002)-----
S-2p = 17.439 (0.003)-----
S-2n = 13.774 (0.002)-----
S-alpha= 1.673 (0.002)-----

S+p = -7.181 (0.004)
S+n = -7.241 (0.009)
S+2p = -15.211 (0.002)
S+2n = -12.629 (0.005)
S+alpha = -0.796 (0.002)

gap p = 2.033 (0.025)
gap n = -1.434 (0.009)
gap 2p = 2.228 (0.003)
gap 2n = 1.145 (0.005)
gap alpha = 0.877 (0.002)