

^{158}Sm $Z = 62$ $N = 96$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1292.013 (0.005) MeV

Qbeta- = 2.005 (0.011) MeV

	Energy T	J+	J-	J-other	T1/2
158SM 1	0.000	0+			1 5.30 M 3
158SM 2				0.073 (2+)	2
158SM 3				0.240 (4+)	3
158SM 4				0.498 (6+)	4
158SM 5				0.842 (8+)	5
158SM 6				1.267 (10+)	6
158SM 7				1.280 (5-)	7 74 NS 6
158SM 8				1.322 (5-)	8
158SM 9				1.391 (6-)	9
158SM 10				1.422 (6-)	10
158SM 11				1.522 (7-)	11
158SM 12				1.541 (7-)	12
158SM 13				1.670 (8-)	13
158SM 14				1.680 (8-)	14
158SM 15				1.766 (12+)	15
158SM 16				1.836 (9-)	16
158SM 17				1.837 (9-)	17
S-alpha=	1.850 (0.053)				
158SM 18				2.013 (10-)	18
158SM 19				2.022 (10-)	19
158SM 20				2.206 (11-)	20
158SM 21				2.225 (11-)	21
158SM 22				2.334 (14+)	22
158SM 23				2.419 (12-)	23
158SM 24				2.444 (12-)	24
158SM 25				2.682 (13-)	25
158SM 26				2.934 (14-)	26
158SM 27				2.967 (16+)	27
158SM 28				3.489 (16-)	28
158SM 29				4.098 (18-)	29

S-p = 10.242 (0.009)

S-n = 6.644 (0.007)

S-2p = 19.355 (0.200)

S-2n = 12.032 (0.010)

S-alpha= 1.850 (0.053)

S+p = -8.082 (0.007)
S+n = -5.029 (0.008)
S+2p = -17.269 (0.005)
S+2n = -11.127 (0.008)
S+alpha = -1.455 (0.006)

gap p = 2.160 (0.011)
gap n = 1.615 (0.010)
gap 2p = 2.085 (0.200)
gap 2n = 0.905 (0.013)
gap alpha = 0.395 (0.053)