

^{159}Sm $Z = 62$ $N = 97$ adopted link ENSDF link

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

BE = 1297.042 (0.006) MeV

Qbeta- = 3.836 (0.007) MeV

	Energy T	J+	J-	J-other	T1/2
159SM 1			0.000	5/2-	1 11.37 S 15
159SM 2				0.072 (7/2-)	2
159SM 3				0.164 (9/2-)	3
159SM 4				0.407 (13/2-)	4
159SM 5				0.728 (17/2-)	5
159SM 6				1.124 (21/2-)	6
159SM 7				1.277 (11/2-)	7 115 NS 10
159SM 8				1.419 (13/2-)	8
159SM 9				1.579 (15/2-)	9
159SM 10				1.592 (25/2-)	10
159SM 11				1.755 (17/2-)	11
159SM 12				1.946 (19/2-)	12
159SM 13				2.129 (29/2-)	13
159SM 14				2.154 (21/2-)	14
S-alpha=	2.349 (0.011)	-----			
159SM 15				2.378 (23/2-)	15
159SM 16				2.616 (25/2-)	16
159SM 17				2.872 (27/2-)	17
159SM 18				3.142 (29/2-)	18

S-p = 10.391 (0.006)-----

S-n = 5.027 (0.008)-----

S-2p = 20.292 (0.006)-----

S-2n = 11.673 (0.007)-----

S-alpha= 2.349 (0.011)-----

S+p = -8.575 (0.006)

S+n = -6.097 (0.006)

S+2p = -17.876 (0.006)

S+2n = -10.607 (0.009)

S+alpha = -1.606 (0.006)

gap p = 1.816 (0.008)

gap n = -1.069 (0.010)

gap 2p = 2.415 (0.009)

gap 2n = 1.066 (0.012)

gap alpha = 0.743 (0.012)