

^{141}Sm $Z = 62$ $N = 79$ adopted link ENSDF link

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

BE = 1165.484 (0.009) MeV

Qbeta+ = 4.589 (0.016) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-1.225	(0.015)	-----		
141SM 1	0.000	1/2+			1 10.2 M 2
141SM 2	0.002	3/2+			2
141SM 3			0.176	11/2-	3 22.6 M 2
141SM 4	0.385	3/2+			4
141SM 5				0.396 (5/2)+	5
141SM 6				0.545 (7/2-)	6
141SM 7				0.595 (5/2)+	7
141SM 8				0.598 (3/2+,5/2+)	8
141SM 9			0.811	15/2-	9
141SM 10				0.829 (7/2)	10

141SM 11			0.900	7/2-	11
141SM 12				0.990	12
141SM 13				1.001	13
141SM 14				1.064 (9/2,11/2)-	14
141SM 15				1.083 LE 5/2	15
141SM 16				1.086 (13/2-)	16
141SM 17				1.161	17
141SM 18				1.180 (9/2,11/2-)	18
141SM 19				1.345	19
141SM 20				1.521	20

141SM 21				1.530	21
141SM 22				1.630	22
141SM 23				1.634 (9/2,11/2)-	23
141SM 24				1.767 (3/2+,5/2+)	24
141SM 25				1.771 (9/2,11/2)-	25
141SM 26				1.895	26
141SM 27				1.900 (19/2-)	27
141SM 28				1.911 (15/2+)	28
141SM 29				1.935 (17/2-)	29
141SM 30				1.956	30

141SM 31				2.140 (17/2+)	31
141SM 32				2.222 (3/2+,5/2+)	32
141SM 33				2.290	33
141SM 34				2.395 (21/2)	34
141SM 35				2.419 (23/2-)	35
141SM 36				2.563 (19/2+)	36

141SM	37				2.641	(23/2+)	37	
141SM	38				2.723	(21/2+)	38	
141SM	39				2.823	(23/2+)	39	
141SM	40				2.977	(25/2+)	40	

141SM	41				3.191	(27/2+)	41	
141SM	42				3.207	(27/2-)	42	
141SM	43				3.318	(23/2-)	43	
141SM	44				3.377	(25/2-)	44	
141SM	45				3.509	(27/2-)	45	
141SM	46				3.580	(27/2-)	46	
141SM	47				3.624	(29/2+)	47	
141SM	48				3.819	(29/2-)	48	
141SM	49				3.973	(31/2+)	49	
141SM	50				4.067	(31/2-)	50	

141SM	51				4.265	(31/2-)	51	
141SM	52				4.482	(31/2)	52	
141SM	53				4.577		53	
141SM	54				4.769	(33/2)	54	
141SM	55				4.793	(33/2-)	55	
141SM	56				4.859	(35/2-)	56	
141SM	57				4.887		57	
141SM	58				5.002	(35/2)	58	
S-p	=	5.011	(0.026)	-----			
141SM	59				5.097	(35/2)	59	
141SM	60				5.206		60	

141SM	61				5.323		61	
141SM	62				5.341	(35/2-)	62	
141SM	63				5.434	(37/2)	63	
141SM	64				5.459	(39/2)	64	
141SM	65				5.576	(37/2)	65	
141SM	66				5.595		66	
141SM	67				5.641	(37/2-)	67	
141SM	68				5.903	(39/2)	68	
141SM	69				5.941	(39/2)	69	
141SM	70				6.207	(43/2)	70	

141SM	71				6.350	(41/2)	71	
141SM	72				6.414	(41/2)	72	
141SM	73				6.896	(43/2)	73	
141SM	74				7.049	(47/2)	74	
141SM	75				7.143	(43/2)	75	
141SM	76				7.376	(45/2)	76	
141SM	77				7.833	(49/2)	77	
141SM	78				7.987	(51/2)	78	
141SM	79				8.284	(49/2)	79	
141SM	80				8.348	(47/2)	80	

S-n = 8.549 (0.015)-----
 S-2p = 8.495 (0.029)-----
 141SM 81 | | | 8.558 (53/2) 81
 141SM 82 | | | 9.477 (57/2) 82

S-p = 5.011 (0.026)-----
 S-n = 8.549 (0.015)-----
 S-2p = 8.495 (0.029)-----
 S-2n = 19.696 (0.014)-----
 S-alpha= -1.225 (0.015)-----

S+p = -2.664 (0.031)
 S+n = -11.119 (0.009)
 S+2p = -6.875 (0.200)
 S+2n = -19.726 (0.009)
 S+alpha = 0.582 (0.021)

gap p = 2.347 (0.040)
 gap n = -2.570 (0.017)
 gap 2p = 1.620 (0.203)
 gap 2n = -0.029 (0.016)
 gap alpha = -0.643 (0.026)