

^{165}Ta $Z = 73$ $N = 92$ adopted link ENSDF link

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

BE = 1320.504 (0.014) MeV

Qbeta+ = 5.788 (0.031) MeV

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

S-alpha=	-4.290	(0.031)	-----		
165TA 1				0.000 (9/2-)	1 31.0 S 15
165TA 2				0.060	2
165TA 3				0.071 (11/2-)	3
165TA 4				0.230	4
165TA 5				0.297 (13/2-)	5
165TA 6				0.470 (15/2-)	6
165TA 7				0.794 (17/2-)	7
165TA 8				0.998 (19/2-)	8
S-p =	1.318	(0.021)	-----		
165TA 9				1.399 (21/2-)	9
165TA 10				1.618 (23/2-)	10

165TA 11				2.071 (25/2-)	11
165TA 12				2.295 (27/2-)	12
165TA 13				2.656 (29/2-)	13
165TA 14				2.790 (31/2-)	14
165TA 15				2.974 (33/2-)	15
165TA 16				3.174 (35/2-)	16
165TA 17				3.413 (37/2-)	17
165TA 18				3.683 (39/2-)	18
165TA 19				3.970 (41/2-)	19
165TA 20				4.292 (43/2-)	20

165TA 21				4.622 (45/2-)	21
165TA 22				4.983 (47/2-)	22
165TA 23				5.356 (49/2-)	23
S-2p =	5.634	(0.031)	-----		
165TA 24				5.753 (51/2-)	24
165TA 25				6.168 (53/2-)	25

S-p =	1.318	(0.021)	-----		
S-n =	10.636	(0.031)	-----		
S-2p =	5.634	(0.031)	-----		
S-2n =	19.456	(0.040)	-----		
S-alpha=	-4.290	(0.031)	-----		

S+p =	-3.329	(0.017)	-----		
S+n =	-8.321	(0.031)	-----		

S+2p = -3.639 (0.014)
S+2n = -18.646 (0.031)
S+alpha = 5.014 (0.018)

gap p = -2.010 (0.027)
gap n = 2.315 (0.044)
gap 2p = 1.995 (0.034)
gap 2n = 0.810 (0.051)
gap alpha = 0.724 (0.036)