

^{175}Ta $Z = 73$ $N = 102$ adopted link ENSDF link

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

BE = 1407.778 (0.028) MeV

Qbeta+ = 2.073 (0.028) MeV

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

S-alpha=	-2.995	(0.028)	-----		
175TA 1	0.000	7/2+			1 10.5 H 2
175TA 2				0.036 (5/2)+	2 100 NS LE
175TA 3				0.051 (5/2)-	3
175TA 4				0.069 (1/2-)	4
175TA 5				0.124 (9/2-)	5
175TA 6				0.130 (9/2+)	6
175TA 7				0.131 (9/2-)	7 222 NS 8
175TA 8				0.143 (7/2+)	8
175TA 9				0.218 (3/2-)	9
175TA 10				0.276 (11/2-)	10

175TA 11				0.277 (9/2+)	11
175TA 12				0.284 (11/2+)	12
175TA 13				0.297 (13/2-)	13
175TA 14				0.339 (1/2+)	14 0.17 US 2
175TA 15				0.436 (11/2+)	15
175TA 16				0.447 (13/2-)	16
175TA 17				0.461 (13/2+)	17
175TA 18				0.572 (17/2-)	18
175TA 19				0.620 (13/2+)	19
175TA 20				0.641 (15/2-)	20

175TA 21				0.658 (15/2+)	21
175TA 22				0.826 (15/2+)	22
175TA 23				0.857 (17/2-)	23
175TA 24				0.873 (17/2+)	24
175TA 25				0.943 (21/2-)	25
175TA 26				1.052 (17/2+)	26
175TA 27				1.094 (19/2-)	27
175TA 28				1.102 (19/2+)	28
175TA 29				1.280 (15/2)	29 1 NS LE
175TA 30				1.297 (19/2+)	30

175TA 31				1.302 (15/2-)	31
175TA 32				1.342 (21/2+)	32
175TA 33				1.351 (21/2-)	33
175TA 34				1.406 (25/2-)	34
175TA 35				1.497 (17/2)	35
175TA 36				1.549 (15/2-)	36

175TA 37			1.553	(17/2+)	37	5.1 NS	6
175TA 38			1.557	(21/2+)	38		
175TA 39			1.568	(21/2-)	39	1950 NS	150
175TA 40			1.593	(23/2+)	40		

175TA 41			1.622	(23/2-)	41		
175TA 42			1.651	(19/2+)	42		
175TA 43			1.691	(19/2)	43		
175TA 44			1.731	(21/2+)	44	0.9 NS	3
175TA 45			1.772	(19/2-)	45		
175TA 46			1.794	(21/2+)	46		
175TA 47			1.826	(21/2)	47		
175TA 48			1.832	(23/2+)	48		
175TA 49			1.852	(25/2+)	49		
175TA 50			1.879	(23/2-)	50		

175TA 51			1.897	(23/2+)	51		
175TA 52			1.911	(25/2-)	52		
175TA 53			1.941	(23/2)	53		
175TA 54			1.950	(29/2-)	54		
175TA 55			1.970	(23/2+)	55		
175TA 56			2.039	(23/2)	56		
175TA 57			2.088	(25/2+)	57		
175TA 58			2.115	(25/2+)	58		
175TA 59			2.119	(27/2+)	59		
175TA 60			2.174	(25/2+)	60		

175TA 61			2.204	(25/2-)	61		
175TA 62			2.207	(27/2-)	62		
175TA 63			2.213	(25/2)	63		
175TA 64			2.300	(27/2+)	64		
175TA 65			2.317	(27/2)	65		
175TA 66			2.396	(29/2+)	66		
175TA 67			2.403	(27/2+)	67		
175TA 68			2.407	(27/2+)	68		
175TA 69			2.516	(29/2-)	69		
175TA 70			2.533	(29/2+)	70		

175TA 71			2.538	(27/2-)	71		
175TA 72			2.569	(33/2-)	72		
175TA 73			2.635	(29/2)	73		
175TA 74			2.657	(29/2+)	74		
175TA 75			2.681	(31/2+)	75		
175TA 76			2.704	(29/2+)	76		
175TA 77			2.769	(31/2)	77		
175TA 78			2.784	(31/2+)	78		
175TA 79			2.826	(31/2-)	79		
175TA 80			2.881	(29/2-)	80		

175TA 81			2.932	(31/2+)	81		

175TA 82				2.981	(33/2+)	82			
175TA 83				3.006	(31/2+)	83			
175TA 84				3.053	(33/2+)	84			
175TA 85				3.092	(33/2)	85			
175TA 86				3.144	(33/2-)	86			
175TA 87				3.217	(31/2-)	87			
175TA 88				3.226	(33/2+)	88			
175TA 89				3.232	(31/2-)	89			
175TA 90				3.251	(37/2-)	90			

175TA 91				3.288	(35/2+)	91			
175TA 92				3.296	(35/2)	92			
175TA 93				3.312	(33/2+)	93			
175TA 94				3.340	(35/2+)	94			
175TA 95				3.458	(35/2-)	95			
175TA 96				3.527	(33/2-)	96	0.5 NS	LE	
175TA 97				3.605	(37/2)	97			
175TA 98				3.614	(37/2+)	98			
175TA 99				3.624	(35/2+)	99			
175TA 100				3.642	(37/2+)	100			

175TA 101				3.763	(35/2,37/2)	101	2 NS	LE	
S-p	=	3.853	(0.028)	-----					
175TA 102				3.892	(39/2)	102			
175TA 103				3.944	(37/2+)	103			
175TA 104				3.947	(39/2+)	104			
175TA 105				3.958	(39/2+)	105			
175TA 106				3.993	(41/2-)	106			
175TA 107				4.042	(37/2,39/2)	107			
175TA 108				4.189	(41/2)	108			
175TA 109				4.265	(39/2+)	109			
175TA 110				4.283	(41/2+)	110			

175TA 111				4.300	(41/2+)	111			
175TA 112				4.330	(39/2,41/2)	112			
175TA 113				4.559	(43/2)	113			
175TA 114				4.592	(41/2+)	114			
175TA 115				4.621	(43/2+)	115			
175TA 116				4.636	(41/2,43/2)	116			
175TA 117				4.661	(43/2+)	117			
175TA 118				4.786	(45/2-)	118			
175TA 119				4.849	(45/2)	119			
175TA 120				4.925	(43/2+)	120			

175TA 121				4.967	(45/2+)	121			
175TA 122				5.040	(45/2+)	122			
175TA 123				5.297	(47/2)	123			
175TA 124				5.610	(49/2-)	124			

S-p = 3.853 (0.028)-----
S-n = 8.739 (0.040)-----
S-2p = 10.106 (0.028)-----
S-2n = 16.155 (0.040)-----
S-alpha= -2.995 (0.028)-----

S+p = -5.522 (0.040)
S+n = -7.028 (0.042)
S+2p = -8.438 (0.040)
S+2n = -15.449 (0.028)
S+alpha = 3.399 (0.037)

gap p = -1.669 (0.048)
gap n = 1.711 (0.057)
gap 2p = 1.667 (0.048)
gap 2n = 0.706 (0.049)
gap alpha = 0.404 (0.047)