

^{148}Tb $Z = 65$ $N = 83$ adopted link ENSDF link

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

BE = 1214.239 (0.012) MeV

Qbeta+ = 5.733 (0.013) MeV

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

S-alpha=	-2.657	(0.016)	-----					
148TB 1				0.000	2-			1 60 M 1
148TB 2							0.090 (9)+	2 2.20 M 5
148TB 3				0.110	4-			3 80 NS 4
148TB 4		0.178			2+			4 7.0 NS 6
148TB 5				0.195	3-			5
148TB 6		0.281			3+			6
148TB 7		0.328			7+			7 4.5 NS 4
148TB 8				0.345	5-			8
148TB 9		0.351			5+			9
148TB 10		0.375			4+			10

148TB 11		0.406			8+			11 0.7 NS LE
148TB 12		0.426			6+			12
148TB 13		0.620			1+			13 0.25 NS LE
148TB 14							0.658 (3-)	14
148TB 15				0.794	2-			15
148TB 16							0.951 (2-,1-)	16
148TB 17							1.096 (11)-	17 22 NS 1
148TB 18							1.220 (5-)	18
148TB 19							1.246 (6-)	19
148TB 20		1.247			1+			20

148TB 21				1.249	9-			21
148TB 22		1.267			10+			22
148TB 23							1.277 1	23
148TB 24							1.295 (8-)	24
148TB 25							1.305 (7-)	25
148TB 26							1.333 1	26
148TB 27							1.366 1	27
148TB 28							1.380 (12)-	28
148TB 29							1.484 (10+)	29
148TB 30		1.643			1+			30

148TB 31							1.654 (8+)	31
148TB 32							1.723 (9+)	32
148TB 33							1.829 1	33
148TB 34		1.840			1+			34
148TB 35							2.362	35
S-p	=	2.469	(0.013)	-----				

148TB 36				2.714	(14)-	36	
148TB 37				2.868		37	
148TB 38				2.954	(15)-	38	
148TB 39				3.168	(16)-	39	
148TB 40				3.367		40	

148TB 41				3.595	(17-)	41	
148TB 42				3.802	(17)-	42	
148TB 43				4.179	(17)	43	
148TB 44				4.239	(17)	44	
148TB 45				4.296	(18)	45	
148TB 46				4.423	(18-)	46	
148TB 47				4.505	(18)	47	
148TB 48				4.862	(18)	48	
148TB 49				4.946		49	
148TB 50				5.009	(18)	50	

148TB 51				5.172	(18)	51	
148TB 52				5.225	(19-)	52	
148TB 53				5.314	(19)	53	
148TB 54				5.558	(19)	54	
148TB 55				5.747	(20-)	55	
148TB 56				6.490	(21+)	56	
148TB 57				6.523	(21)	57	
148TB 58				6.933		58	
148TB 59				7.270	(23+)	59	
148TB 60				7.342	(23-)	60	

148TB 61				7.620	(24+)	61	
148TB 62				7.761	(26+)	62	
148TB 63				7.834		63	
S-n	=	7.865	(0.015)	-----			
S-2p	=	7.997	(0.014)	-----			
148TB 64				8.338		64	
148TB 65				8.619	(27+)	65	1.310 US 7
148TB 66				9.196		66	
148TB 67				9.577	(29)	67	
148TB 68				9.920		68	
148TB 69				9.972		69	

S-p	=	2.469	(0.013)	-----			
S-n	=	7.865	(0.015)	-----			
S-2p	=	7.997	(0.014)	-----			
S-2n	=	18.916	(0.047)	-----			
S-alpha	=	-2.657	(0.016)	-----			

S+p	=	-4.446	(0.015)				
S+n	=	-9.023	(0.013)				
S+2p	=	-5.987	(0.019)				

S+2n = -16.712 (0.014)
S+alpha = 4.507 (0.018)

gap p = -1.977 (0.020)
gap n = -1.158 (0.020)
gap 2p = 2.010 (0.023)
gap 2n = 2.204 (0.049)
gap alpha = 1.850 (0.024)