

$^{152}\text{Tb}$        $Z = 65$        $N = 87$       adopted link      ENSDF link

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

BE = 1246.705 ( 0.040) MeV

Qbeta+ = 3.990 ( 0.040) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-3.155 ( 0.041)-----				
152TB 1			0.000 2-		1 17.5 H 1
152TB 2			0.235 3-		2
152TB 3	0.257	1+			3 0.39 NS 8
152TB 4			0.277 3-		4
152TB 5			0.283 4-		5
152TB 6			0.342 5-		6 0.96 US
152TB 7	0.502	8+			7 4.2 M 1
152TB 8	0.600	9+			8 2 NS LT
152TB 9	0.806	10+			9 2 NS LT
152TB 10				1.212 (9-)	10 2 NS LT
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152TB 11	1.230	11+			11 2 NS LT
152TB 12				1.238 11(-)	12 4.2 NS 2
152TB 13	1.349	12+			13 2 NS LT
152TB 14				1.370 12(-)	14 2 NS LT
152TB 15				1.712 13(-)	15 2 NS LT
152TB 16	1.888	14+			16 2 NS LT
152TB 17				1.888 (13+)	17 2 NS LT
152TB 18				1.920 14(-)	18 2 NS LT
152TB 19				2.269 15(-)	19 2 NS LT
152TB 20				2.499 16(-)	20 2 NS LT
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152TB 21				2.661 (16-)	21
152TB 22	2.689	16+			22
152TB 23				2.852 (17-)	23
152TB 24				2.889 17(-)	24 2 NS LT
152TB 25				3.127 18(-)	25 2 NS LT
152TB 26				3.218 (18+)	26 2 NS LT
152TB 27				3.250 (19-)	27
152TB 28				3.596 19(-)	28 2 NS LT
152TB 29				3.720 (20-)	29
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S-p	= 3.817 ( 0.040)-----				
152TB 30				3.845 20(-)	30 2 NS LT
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152TB 31				4.002 (21)	31
152TB 32				4.234 (21-)	32
152TB 33				4.350 21(-)	33 2 NS LT
152TB 34				4.354 (22)	34
152TB 35				4.361 (21-)	35

152TB 36				4.454	(24)	36
152TB 37				4.502	(22-)	37
152TB 38				4.694	(23)	38
152TB 39				5.103	(23-)	39
152TB 40				5.182	(23-)	40
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152TB 41				5.249	(24)	41
152TB 42				5.257	(24-)	42
152TB 43				5.966	(25-)	43
152TB 44				5.969	(26-)	44
152TB 45				5.985	(26)	45
152TB 46				6.011	(25-)	46
152TB 47				6.093	(26)	47
152TB 48				6.371	(27-)	48
152TB 49				6.696	(28)	49
152TB 50				6.873	(28+)	50
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152TB 51				6.916	(29-)	51
S-n	=	7.165	( 0.040)	-----		
152TB 52				7.284	(29-)	52
152TB 53				7.617	(30+)	53
152TB 54				7.728	(31-)	54
152TB 55				8.290	(31)	55
152TB 56				8.371	(32+)	56
152TB 57				8.502	(31)	57
152TB 58				8.565	(33-)	58
152TB 59				8.961	(33)	59
152TB 60				9.147	(34+)	60
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152TB 61				9.389	(35-)	61
152TB 62				9.792	(36+)	62
152TB 63				9.804	(35)	63
152TB 64				9.923	(37-)	64
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S-p	=	3.817	( 0.040)	-----		
S-n	=	7.165	( 0.040)	-----		
S-2p	=	10.503	( 0.040)	-----		
S-2n	=	15.754	( 0.041)	-----		
S-alpha	=	-3.155	( 0.041)	-----		
S+p	=	-5.715	( 0.040)			
S+n	=	-8.668	( 0.040)			
S+2p	=	-8.500	( 0.041)			
S+2n	=	-15.582	( 0.060)			
S+alpha	=	2.754	( 0.055)			
gap p	=	-1.898	( 0.057)			
gap n	=	-1.503	( 0.057)			
gap 2p	=	2.003	( 0.058)			

gap 2n = 0.172 ( 0.073)  
gap alpha = -0.401 ( 0.069)