

$^{152}\text{Ho}$        $Z = 67$        $N = 85$       adopted link      ENSDF link

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

BE = 1238.028 ( 0.013) MeV

Qbeta+ = 6.513 ( 0.013) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
S-alpha=	-4.507 ( 0.018)				
152HO	1		0.000 2-		1 161.8 S 3
152HO	2   0.160 9+				2 49.8 S 2
152HO	3   0.179 1+				3
152HO	4			0.220 (8)+	4
152HO	5			0.576 (9+)	5
152HO	6			0.706 (10+)	6
152HO	7   0.919 11+				7
152HO	8			1.346 (11+)	8
152HO	9			1.503 (12+)	9
152HO	10   1.632 13+				10
-----					
152HO	11			1.969 (13+)	11
152HO	12			2.025 (14+)	12
-----					
S-p	= 2.141 ( 0.013)				
152HO	13   2.236 15+				13
152HO	14   2.285 16+				14
152HO	15		3.020 19-		15 8.4 US 3
152HO	16   3.457 18+				16
152HO	17		3.531 20-		17
152HO	18   4.235 21+				18
152HO	19   4.270 20+				19
152HO	20   4.299 20+				20
-----					
152HO	21			4.485	21
152HO	22   4.686 22+				22
152HO	23   4.884 24+				23 5 NS 2
152HO	24   5.697 25+				24
152HO	25		5.749 25-		25
152HO	26		5.892 26-		26
152HO	27			5.920	27
152HO	28		5.972 26-		28
152HO	29		5.998 28-		29 47 NS 7
152HO	30			6.047 (25-)	30
-----					
152HO	31			6.590 (27-)	31
152HO	32			6.739	32
152HO	33			7.072 29(+)	33
-----					
S-2p	= 7.077 ( 0.015)				
152HO	34			7.361 30(+)	34

152HO	35				7.634	(29-)	35
152HO	36				8.016	30(+)	36
S-n = 8.053 ( 0.015)-----							
152HO	37				8.266		37
152HO	38				8.281	31(+)	38
152HO	39				8.637	32(+)	39
152HO	40				8.642		40
-----							
152HO	41				8.929	33(+)	41
152HO	42				8.934		42
152HO	43				9.260		43
152HO	44				9.549		44
152HO	45				9.561		45
152HO	46				9.663	33(+)	46
152HO	47				9.916	34(-)	47

  

S-p = 2.141 ( 0.013)-----  
S-n = 8.053 ( 0.015)-----  
S-2p = 7.077 ( 0.015)-----  
S-2n = 17.801 ( 0.019)-----  
S-alpha= -4.507 ( 0.018)-----

  

S+p = -4.151 ( 0.016)  
S+n = -9.479 ( 0.014)  
S+2p = -5.400 ( 0.019)  
S+2n = -17.177 ( 0.015)  
S+alpha = 4.345 ( 0.019)

  

gap p = -2.010 ( 0.020)  
gap n = -1.426 ( 0.020)  
gap 2p = 1.676 ( 0.024)  
gap 2n = 0.624 ( 0.024)  
gap alpha = -0.162 ( 0.026)