

$^{158}\text{Yb}$        $Z = 70$        $N = 88$       adopted link      ENSDF link

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

BE = 1276.514 ( 0.008) MeV

Qbeta+ = 2.694 ( 0.026) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-4.171	( 0.009)	-----		
158YB 1	0.000	0+			1 1.49 M 13
158YB 2				0.358 (2+)	2 25 PS 3
158YB 3				0.835 (4+)	3 3.8 PS 10
158YB 4				1.403 (6+)	4
158YB 5				2.047 (8+)	5
158YB 6				2.121 (7-)	6
158YB 7				2.230 (6-)	7
158YB 8				2.574 (9-)	8
158YB 9				2.650 (8-)	9
158YB 10				2.653 (9-)	10
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158YB 11				2.743 (10+)	11
158YB 12				2.923 (10-)	12
158YB 13				2.957 (11-)	13
158YB 14				2.959 (10-)	14
158YB 15				3.407 (12-)	15
158YB 16				3.426 (12+)	16
158YB 17				3.457 (13-)	17
158YB 18				3.482 (12-)	18
158YB 19				3.486 (12+)	19
158YB 20				3.935 (14+)	20
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158YB 21				3.970 (14-)	21
158YB 22				4.049 (15-)	22
158YB 23				4.083 (14-)	23
158YB 24				4.502 (16+)	24
158YB 25				4.585 (16-)	25
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S-p	= 4.589	( 0.029)	-----		
158YB 26				4.698 (17-)	26
158YB 27				4.736 (16-)	27
158YB 28				5.129 (18+)	28
158YB 29				5.282 (18-)	29
158YB 30				5.448 (19-)	30
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158YB 31				5.862 (20+)	31
158YB 32				6.006 (20-)	32
158YB 33				6.195 (21-)	33
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S-2p	= 6.376	( 0.026)	-----		
158YB 34				6.587 (22+)	34

158YB 35				6.692	(22-)	35
158YB 36				6.911	(23-)	36
158YB 37				7.320	(24+)	37
158YB 38				7.397	(24-)	38
158YB 39				7.633	(25-)	39
158YB 40				8.061	(26+)	40
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158YB 41				8.106	(26-)	41
158YB 42				8.455	(27-)	42
158YB 43				8.847	(28+)	43
158YB 44				8.903	(28-)	44
158YB 45				9.328	(29-)	45
158YB 46				9.640	(30+)	46
158YB 47				9.741	(30-)	47

S-p = 4.589 ( 0.029)-----  
S-n = 10.661 ( 0.014)-----  
S-2p = 6.376 ( 0.026)-----  
S-2n = 18.887 ( 0.012)-----  
S-alpha= -4.171 ( 0.009)-----

S+p = -0.988 ( 0.039)  
S+n = -7.895 ( 0.019)  
S+2p = -4.507 ( 0.012)  
S+2n = -18.296 ( 0.010)  
S+alpha = 4.416 ( 0.012)

gap p = 3.601 ( 0.048)  
gap n = 2.766 ( 0.024)  
gap 2p = 1.869 ( 0.029)  
gap 2n = 0.590 ( 0.016)  
gap alpha = 0.246 ( 0.015)