

$^{161}\text{Yb}$        $Z = 70$        $N = 91$       adopted link      ENSDF link

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

BE = 1302.552 ( 0.015) MeV

Qbeta+ = 4.065 ( 0.032) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-3.155	( 0.031)	-----		
161YB 1			0.000	3/2-	1 4.2 M 2
161YB 2			0.044	5/2-	2
161YB 3			0.111	7/2-	3
161YB 4				0.197	4
161YB 5				0.211 (3/2-)	5
161YB 6				0.211 (9/2+)	6
161YB 7			0.221	9/2-	7
161YB 8				0.231 (13/2+)	8
161YB 9				0.367	9
161YB 10				0.463 (17/2+)	10 85 PS 6
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161YB 11			0.553	13/2-	11 6 PS 3
161YB 12				0.703 (15/2+)	12
161YB 13				0.860 (21/2+)	13 7.2 PS 6
161YB 14			1.007	17/2-	14 3.5 PS 21
161YB 15				1.117 (19/2+)	15
161YB 16				1.382 (25/2+)	16 1.5 PS 3
161YB 17			1.536	21/2-	17 21 PS LT
161YB 18				1.649 (23/2+)	18
161YB 19				1.999 (29/2+)	19 1.6 PS 3
161YB 20				2.044 (25/2-)	20
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161YB 21			2.098	25/2-	21
161YB 22				2.259 (27/2+)	22
161YB 23				2.305 (27/2-)	23
161YB 24			2.478	29/2-	24
161YB 25				2.561 (29/2-)	25
161YB 26				2.680 (33/2+)	26 1.4 PS LT
161YB 27				2.687 (31/2-)	27
161YB 28			2.916	33/2-	28 4.2 PS 8
161YB 29				2.919 (31/2+)	29
161YB 30				3.109 (33/2-)	30
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161YB 31				3.167 (35/2-)	31
161YB 32				3.387 (37/2+)	32
161YB 33			3.444	37/2-	33 2.8 PS LT
161YB 34				3.627 (35/2+)	34
161YB 35				3.713 (37/2-)	35
161YB 36				3.767 (39/2-)	36

161YB 37			4.075	41/2-		37
161YB 38					4.093 (41/2+)	38
161YB 39					4.350 (39/2+)	39
161YB 40					4.383 (41/2-)	40
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161YB 41					4.473 (43/2-)	41
161YB 42			4.811	45/2-		42
161YB 43					4.812 (45/2+)	43
S-p	=	4.822 ( 0.036)	-----			
161YB 44					5.143 (45/2-)	44
161YB 45					5.266 (47/2-)	45
161YB 46					5.579 (49/2+)	46
161YB 47			5.632	49/2-		47
161YB 48					5.964 (49/2-)	48
161YB 49					6.120 (51/2-)	49
161YB 50					6.406 (53/2+)	50
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161YB 51			6.500	53/2-		51
161YB 52					6.814 (53/2-)	52
161YB 53					6.977 (55/2-)	53
161YB 54					7.289 (57/2+)	54
161YB 55			7.347	57/2-		55
S-n	=	7.742 ( 0.016)	-----			
S-2p	=	7.851 ( 0.016)	-----			
161YB 56					7.877 (59/2-)	56
161YB 57			8.195	61/2-		57
161YB 58					8.198 (61/2+)	58
161YB 59					8.832 (63/2-)	59
161YB 60			9.090	65/2-		60
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161YB 61					9.095 (65/2+)	61
161YB 62					9.844 (67/2-)	62
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S-p	=	4.822 ( 0.036)	-----			
S-n	=	7.742 ( 0.016)	-----			
S-2p	=	7.851 ( 0.016)	-----			
S-2n	=	18.143 ( 0.023)	-----			
S-alpha	=	-3.155 ( 0.031)	-----			
S+p	=	-2.286 ( 0.077)				
S+n	=	-10.058 ( 0.021)				
S+2p	=	-6.013 ( 0.030)				
S+2n	=	-17.602 ( 0.021)				
S+alpha	=	3.774 ( 0.032)				
gap p	=	2.536 ( 0.085)				
gap n	=	-2.316 ( 0.027)				
gap 2p	=	1.838 ( 0.034)				
gap 2n	=	0.541 ( 0.032)				

gap alpha = 0.619 ( 0.044)