

$^{162}\text{Yb}$        $Z = 70$        $N = 92$       adopted link      ENSDF link

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

BE = 1312.610 ( 0.015) MeV

Qbeta+ = 1.656 ( 0.030) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-3.058	( 0.029)	-----		
162YB 1	0.000	0+			1 18.87 M 19
162YB 2	0.167	2+			2 415 PS 9
162YB 3	0.487	4+			3 14.3 PS 6
162YB 4	0.798	2+			4
162YB 5	0.924	6+			5 3.47 PS 21
162YB 6	0.992	3+			6
162YB 7	1.006	0+			7
162YB 8	1.130	2+			8
162YB 9				1.150	2+,3,4+ 9
162YB 10				1.198	2+,3,4+ 10
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162YB 11				1.337	2+,3,4+ 11
162YB 12				1.343	12
162YB 13	1.379	2+			13
162YB 14				1.398	1,2+ 14
162YB 15	1.446	8+			15 1.1 PS 3
162YB 16				1.455	16
162YB 17				1.483	17
162YB 18				1.501	18
162YB 19				1.553	2+,3,4+ 19
162YB 20				1.568	20
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162YB 21				1.573	6+:8+ 21
162YB 22				1.609	22
162YB 23				1.637	1,2+ 23
162YB 24				1.638	24
162YB 25	1.647	6+			25
162YB 26				1.673	26
162YB 27				1.677	2+,3,4+ 27
162YB 28				1.717	28
162YB 29				1.741	29
162YB 30			1.768	7-	30
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162YB 31				1.854	31
162YB 32				1.861	1,2+ 32
162YB 33				1.939	2+,3,4+ 33
162YB 34	1.985	8+			34 1.5 PS 2
162YB 35	2.024	10+			35 0.9 PS 3
162YB 36				2.050	36

162YB 37						2.059		2+,3,4+		37
162YB 38						2.092				38
162YB 39						2.099		1,2+		39
162YB 40				2.153		9-				40 0.54 PS 5
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162YB 41						2.270				41
162YB 42				2.280		8-				42 2.3 PS 5
162YB 43						2.399				43
162YB 44		2.425		10+						44 1.3 PS +3-1
162YB 45						2.447		1,2+		45
162YB 46						2.550				46
162YB 47				2.572		10-				47 9.6 PS 8
162YB 48				2.605		11-				48 0.62 PS 5
162YB 49		2.634		12+						49 1.0 PS +5-8
162YB 50						2.790				50
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162YB 51		2.806		12+						51 4.4 PS 6
162YB 52						2.815				52
162YB 53						2.826				53
162YB 54				2.938		12-				54 8.3 PS 19
162YB 55						2.997				55
162YB 56				3.077		13-				56
162YB 57		3.127		14+						57 28 PS 10
162YB 58		3.257		14+						58
162YB 59				3.417		14-				59 1.8 PS +4-13
162YB 60		3.579		16+						60 3.3 PS 2
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162YB 61				3.597		15-				61
162YB 62		3.879		16+						62
162YB 63				3.972		16-				63 0.8 PS 3
162YB 64		4.149		18+						64 1.9 PS 3
162YB 65				4.185		17-				65
162YB 66		4.495		18+						66
162YB 67				4.562		18-				67
162YB 68				4.821		19-				68 0.38 PS +16-31
162YB 69		4.822		20+						69
162YB 70		5.146		20+						70
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162YB 71				5.169		20-				71
S-p	=	5.211	(	0.032)						
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162YB 72				5.482		21-				72
162YB 73		5.585		22+						73
162YB 74				5.816		22-				74
162YB 75		5.862		22+						75
162YB 76				6.174		23-				76
162YB 77		6.423		24+						77
162YB 78				6.529		24-				78
162YB 79		6.652		24+						79
162YB 80				6.926		25-				80
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162YB	81		7.314	26+				81	
162YB	82					7.319	26-		82
162YB	83		7.488	26+					83
162YB	84					7.755	27-		84
162YB	85					8.188	28-		85
162YB	86		8.235	28+					86
162YB	87								87
S-2p	=		8.335	( 0.029)	-----				
162YB	88					8.661	29-		88
162YB	89					9.125	30-		89
162YB	90								90
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162YB	91					9.606	31-		91

  

S-p	=		5.211	( 0.032)	-----				
S-n	=		10.058	( 0.021)	-----				
S-2p	=		8.335	( 0.029)	-----				
S-2n	=		17.801	( 0.016)	-----				
S-alpha	=		-3.058	( 0.029)	-----				

  

S+p	=		-2.259	( 0.032)					
S+n	=		-7.544	( 0.021)					
S+2p	=		-6.575	( 0.022)					
S+2n	=		-17.334	( 0.021)					
S+alpha	=		3.537	( 0.032)					

  

gap p	=		2.952	( 0.045)					
gap n	=		2.514	( 0.030)					
gap 2p	=		1.760	( 0.036)					
gap 2n	=		0.467	( 0.027)					
gap alpha	=		0.480	( 0.043)					