

^{165}Yb $Z = 70$ $N = 95$ adopted link ENSDF link

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

BE = 1337.299 (0.027) MeV

Qbeta+ = 2.635 (0.027) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-2.481	(0.028)	-----		
165YB 1			0.000	5/2-	1 9.9 M 3
165YB 2			0.088	7/2-	2 0.80 NS 10
165YB 3			0.121	3/2-	3 0.30 NS 4
165YB 4	0.127	9/2+			4 300 NS 30
165YB 5	0.133	7/2+			5 2.8 NS 5
165YB 6				0.174 (5/2)-	6 0.23 NS 4
165YB 7			0.198	9/2-	7 0.179 NS 5
165YB 8	0.210	11/2+			8 1.5 NS 2
165YB 9	0.217	13/2+			9 1.26 NS 15
165YB 10				0.255 (5/2)	10

165YB 11				0.324 (1/2)-	11
165YB 12				0.331 (11/2-)	12
165YB 13				0.392 (3/2)-	13
165YB 14				0.401 (5/2)-	14
165YB 15	0.419	15/2+			15
165YB 16	0.423	17/2+			16 0.109 NS 9
165YB 17				0.428 (3/2)-	17
165YB 18				0.484	18
165YB 19			0.485	13/2-	19
165YB 20	0.494	5/2+			20

165YB 21				0.533 (+)	21
165YB 22				0.591	22
165YB 23				0.665	23
165YB 24				0.670	24
165YB 25				0.726	25
165YB 26	0.745	21/2+			26
165YB 27	0.758	19/2+			27
165YB 28				0.762	28
165YB 29				0.783	29
165YB 30				0.807	30

165YB 31			0.850	17/2-	31
165YB 32				0.874	32
165YB 33				0.945	33
165YB 34				0.948	34
165YB 35				1.013	35
165YB 36	1.174	25/2+			36

165YB 37		1.211	23/2+					37	
165YB 38					1.281	21/2-		38	
165YB 39							1.362	39	
165YB 40							1.560	40	

165YB 41							1.693	41	
165YB 42		1.698	29/2+					42	
165YB 43							1.719	43	
165YB 44							1.734	(3/2+)	44
165YB 45					1.759	25/2-		45	
165YB 46		1.761	27/2+					46	
165YB 47							1.931	47	
165YB 48							1.979	(27/2-)	48
165YB 49							1.983	49	
165YB 50							2.008	50	

165YB 51							2.012	51	
165YB 52							2.126	(3/2)	52
165YB 53					2.249	29/2-		53	
165YB 54		2.303	33/2+					54	
165YB 55		2.390	31/2+					55	
165YB 56							2.448	(31/2-)	56
165YB 57					2.727	33/2-		57	
165YB 58							2.954	(35/2-)	58
165YB 59		2.978	37/2+					59	
165YB 60		3.086	35/2+					60	

165YB 61					3.243	37/2-		61	
165YB 62							3.325	(37/2+)	62
165YB 63							3.520	(39/2-)	63
165YB 64		3.707	41/2+					64	
165YB 65					3.824	41/2-		65	
165YB 66		3.835	39/2+					66	
165YB 67							3.858	(41/2+)	67
165YB 68							4.155	(43/2-)	68
165YB 69							4.435	(45/2+)	69
165YB 70					4.473	45/2-		70	

165YB 71		4.538	45/2+					71	
165YB 72							4.623	(43/2+)	72
165YB 73							4.861	(47/2-)	73
165YB 74							5.170	(49/2+)	74
165YB 75					5.189	49/2-		75	
165YB 76							5.354	(49/2+)	76
165YB 77							5.474	(47/2+)	77
165YB 78							5.634	(51/2-)	78

S-p	=	5.675	(0.036)	-----					
165YB 79					5.970	53/2-		79	
165YB 80							5.985	(53/2+)	80

165YB 81				6.218	(53/2+)	81
165YB 82				6.473	(55/2-)	82
165YB 83		6.818	57/2-			83
165YB 84				6.880	(57/2+)	84
165YB 85				7.119	(57/2+)	85
S-n	=	7.354	(0.031)	-----		
165YB 86				7.377	(59/2-)	86
165YB 87		7.730	61/2-			87
165YB 88				7.845	(61/2+)	88
165YB 89				8.056	(61/2+)	89
165YB 90				8.344	(63/2-)	90

165YB 91		8.705	65/2-			91
165YB 92				8.865	(65/2+)	92
165YB 93				9.368	(67/2-)	93
S-2p	=	9.706	(0.027)	-----		
165YB 94		9.735	69/2-			94
165YB 95				9.924	(69/2+)	95

S-p	=	5.675	(0.036)	-----		
S-n	=	7.354	(0.031)	-----		
S-2p	=	9.706	(0.027)	-----		
S-2n	=	17.144	(0.031)	-----		
S-alpha	=	-2.481	(0.028)	-----		
S+p	=	-3.015	(0.040)			
S+n	=	-9.370	(0.027)			
S+2p	=	-7.750	(0.039)			
S+2n	=	-16.437	(0.027)			
S+alpha	=	3.153	(0.039)			
gap p	=	2.661	(0.054)			
gap n	=	-2.015	(0.041)			
gap 2p	=	1.956	(0.047)			
gap 2n	=	0.707	(0.041)			
gap alpha	=	0.672	(0.048)			