

^{85}Y $Z = 39$ $N = 46$ adopted link ENSDF link

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

BE = 733.393 (0.019) MeV

Qbeta+ = 3.261 (0.019) MeV

	Energy T	J+	J-	J-other	T1/2
85Y 1				0.000 (1/2)-	1 2.68 H 5
85Y 2				0.020 (9/2)+	2 4.86 H 20
85Y 3				0.266 (5/2)-	3 178 NS 7
85Y 4				0.417 (3/2)-	4
85Y 5				0.436 (5/2)+	5
85Y 6				0.474 (7/2)+	6
85Y 7				0.637 (3/2)-	7
85Y 8				0.752	8
85Y 9				0.794 (LE 9/2)	9
85Y 10				0.803 3/2+,5/2+	10
85Y 11				0.815 (13/2)+	11 2.36 PS 14
85Y 12				0.883 3/2+,5/2+	12
85Y 13				0.889 (7/2-)	13
85Y 14				0.898	14
85Y 15				0.930 (9/2+)	15
85Y 16				0.936 1/2-,3/2-	16
85Y 17				0.965 1/2-,3/2-	17
85Y 18				1.010 (11/2-)	18
85Y 19				1.030 (5/2+:13/2+)	19
85Y 20				1.050 (5/2,7/2,9/2)	20
85Y 21				1.140 (9/2-)	21
85Y 22				1.164 (5/2,7/2,9/2)	22
85Y 23				1.180 (11/2+)	23
85Y 24				1.214 1/2-,3/2-	24
85Y 25				1.218 (5/2+,7/2,9/2+)	25
85Y 26				1.270 (1/2:7/2-)	26
85Y 27				1.274 (5/2,7/2,9/2+)	27
85Y 28				1.280 3/2+,5/2+	28
85Y 29				1.311 (5/2+,7/2,9/2+)	29
85Y 30	1.378	1/2+			30
85Y 31				1.393 (5/2,7/2,9/2+)	31
85Y 32				1.423	32
85Y 33				1.433	33
85Y 34				1.462 (5/2+:13/2+)	34
85Y 35				1.514 (5/2+,7/2,9/2)	35
85Y 36				1.605 3/2+,5/2+	36
85Y 37				1.627 (5/2+,7/2,9/2+)	37

85Y	38				1.649	(13/2+)	38		
85Y	39				1.676		39		
85Y	40				1.706	(5/2+,7/2,9/2+	40)		

85Y	41	1.724	5/2+				41		
85Y	42				1.738	(11/2-)	42		
85Y	43				1.772	7/2+,9/2+	43		
85Y	44				1.789		44		
85Y	45				1.797	(17/2)+	45	1.32 PS	14
85Y	46				1.824	(5/2,7/2,9/2)	46		
85Y	47	1.837	1/2+				47		
85Y	48				1.846		48		
85Y	49				1.893	(7/2+,9/2)	49		
85Y	50	1.896	1/2+				50		

85Y	51				1.954	(5/2+,7/2,9/2+	51)		
85Y	52				1.992	1/2-,3/2-	52		
85Y	53				2.003		53		
85Y	54				2.023		54		
85Y	55				2.044	(13/2-)	55		
85Y	56				2.156	1/2+&3/2+,5/2+	56		
85Y	57				2.204	(5/2+)	57		
85Y	58				2.223	1/2+&3/2+,5/2+	58		
85Y	59				2.260	(17/2)+	59	3.05 PS	35
85Y	60				2.294	(5/2,7/2,9/2)	60		

85Y	61				2.303	(15/2-)	61	11.1 PS	14
85Y	62				2.350	(7/2+,9/2+)	62		
85Y	63				2.411	(5/2,7/2,9/2)	63		
85Y	64				2.427	3/2+,5/2+	64		
85Y	65				2.429	(7/2+,9/2+)	65		
85Y	66	2.472	1/2+				66		
85Y	67				2.507	(17/2-)	67	11.1 PS	7
85Y	68				2.519	3/2+,5/2+	68		
85Y	69				2.551	3/2+,5/2+	69		
85Y	70				2.586	(7/2+,9/2)	70		

85Y	71				2.650	(21/2)+	71	4.02 PS	21
85Y	72				2.660	(5/2+,7/2,9/2)	72		
85Y	73				2.746	(17/2-)	73		
85Y	74				2.748	3/2+,5/2+	74		
85Y	75				2.783	(17/2-)	75		
85Y	76				2.840	(1/2+)	76		
85Y	77				2.862	(17/2-)	77		
85Y	78				2.926	(19/2-)	78	5.1 PS	10
85Y	79				2.939	3/2+,5/2+	79		
85Y	80				2.990	(21/2+)	80	1.73 PS	35

85Y	81				3.019	(19/2-)	81		
85Y	82	3.041	1/2+				82		

85Y 83		3.110	1/2+				83		
85Y 84						3.168	(1/2+)	84	
85Y 85						3.230	3/2+,5/2+	85	
85Y 86						3.270	3/2+,5/2+	86	
85Y 87						3.304	(21/2-)	87	1.39 PS 14
85Y 88		3.375	1/2+					88	
85Y 89						3.391	(23/2+)	89	1.0 PS 4
85Y 90						3.520	(21/2-)	90	

85Y 91						3.672	(25/2+)	91	2.4 PS +3-7
85Y 92						3.711		92	
85Y 93						4.005	(23/2-)	93	5.5 PS LT
85Y 94						4.080	(25/2+)	94	
85Y 95						4.160	(25/2+)	95	
85Y 96						4.361	(25/2-)	96	1.66 PS 14
S-p	=	4.482	(0.019)	-----					
85Y 97						4.604	(27/2+)	97	
S-alpha	=	4.810	(0.020)	-----					
85Y 98						4.913	(29/2+)	98	0.69 PS 14
85Y 99						5.021	(27/2-)	99	
85Y 100						5.437	(29/2-)	100	

85Y 101						5.448	(25/2+,27/2,29/2101+)		
85Y 102						5.619	(29/2-)	102	
85Y 103						6.046	(31/2-)	103	
85Y 104						6.172	(31/2-)	104	
85Y 105						6.177	(31/2+)	105	
85Y 106						6.360	(33/2+)	106	
85Y 107						6.377	(31/2-)	107	
85Y 108						6.639	(33/2-)	108	
85Y 109						6.738	(33/2+)	109	
85Y 110						6.969		110	

85Y 111						7.262	(35/2-)	111	
85Y 112						8.004	(37/2+)	112	
85Y 113		8.774	5/2+					113	28 KEV 8
85Y 114		8.811	1/2+					114	22 KEV 5
85Y 115						9.220	3/2+,5/2+	115	23 KEV 8
85Y 116		9.282	1/2+					116	15 KEV 5
85Y 117						9.474	(41/2+)	117	
85Y 118						9.750	(5/2)+	118	32 KEV 10
85Y 119		9.938	1/2+					119	19 KEV 5
85Y 120						9.964	3/2+,5/2+	120	20 KEV 4

85Y 121						9.991		121	

S-p	=	4.482	(0.019)	-----					
S-n	=	12.019	(0.019)	-----					
S-2p	=	13.349	(0.019)	-----					

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S-2n = 21.779 ( 0.027)-----  
S-alpha= 4.810 ( 0.020)-----  
  
S+p = -7.416 ( 0.019)  
S+n = -9.512 ( 0.024)  
S+2p = -10.610 ( 0.020)  
S+2n = -21.319 ( 0.019)  
S+alpha = -5.208 ( 0.030)  
  
gap p = -2.934 ( 0.027)  
gap n = 2.507 ( 0.031)  
gap 2p = 2.739 ( 0.028)  
gap 2n = 0.460 ( 0.033)  
gap alpha = -0.398 ( 0.036)
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