

$^{99}\text{Y}$        $Z = 39$        $N = 60$       adopted link      ENSDF link

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

BE = 839.193 ( 0.007) MeV

Qbeta- = 6.973 ( 0.012) MeV

	Energy T	J+	J-	J-other	T1/2
99Y	1			0.000 (5/2+)	1 1.484 S 7
99Y	2			0.125 (7/2+)	2 57 PS 10
99Y	3			0.284 (9/2+)	3 18.6 PS 13
99Y	4			0.482 (11/2+)	4 4.30 PS 42
99Y	5			0.487 (5/2-)	5
99Y	6			0.536 (3/2-)	6
99Y	7			0.600	7
99Y	8			0.624 (7/2-)	8
99Y	9			0.657 (5/2-)	9
99Y	10			0.706 (13/2+)	10 2.50 PS 21
99Y	11			0.818 (7/2-)	11
99Y	12			0.976 (15/2+)	12 2.29 PS 62
99Y	13			1.009 (3/2+)	13
99Y	14			1.012 (1/2+)	14
99Y	15			1.120 (3/2+)	15
99Y	16			1.192 (5/2+)	16
99Y	17			1.198 1/2+, 3/2, 5/2+	17
99Y	18			1.213 (5/2+)	18
99Y	19			1.221 (7/2+)	19
99Y	20			1.259 (17/2+)	20
99Y	21			1.402 3/2+, 5/2	21
99Y	22			1.412 1/2+, 3/2, 5/2	22
99Y	23			1.595 (19/2+)	23
99Y	24			1.655 (11/2+)	24 1.6 NS 4
99Y	25			1.869 (13/2+)	25 23 PS 6
99Y	26			1.931 3/2+, 5/2+	26
99Y	27			1.933 (21/2+)	27
99Y	28			2.114 (15/2+)	28
99Y	29			2.142 (17/2+)	29 8.0 US 5
99Y	30			2.206 (5/2)+	30
99Y	31			2.239 (5/2)+	31
99Y	32			2.245 (3/2, 5/2)+	32
99Y	33			2.276 (3/2, 5/2)+	33
99Y	34			2.280 (3/2, 5/2)+	34
99Y	35			2.315 1/2+, 3/2+, 5/2+	35
99Y	36			2.332 (23/2+)	36
99Y	37			2.389 (17/2+)	37

99Y	38				2.694	(19/2+)	38
99Y	39				2.718	(25/2+)	39
99Y	40				3.028	(21/2+)	40
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99Y	41				3.179	(27/2+)	41
99Y	42				3.389	(23/2+)	42

  

S-p = 11.510 ( 0.007)-----  
S-n = 6.426 ( 0.010)-----  
S-2p = 26.702 ( 0.007)-----  
S-2n = 10.671 ( 0.009)-----  
S-alpha= 7.178 ( 0.021)-----

S+p = -13.018 ( 0.010)  
S+n = -4.749 ( 0.013)  
S+2p = -22.826 ( 0.008)  
S+2n = -10.554 ( 0.010)  
S+alpha = -6.810 ( 0.008)

gap p = -1.508 ( 0.013)  
gap n = 1.677 ( 0.017)  
gap 2p = 3.877 ( 0.010)  
gap 2n = 0.117 ( 0.014)  
gap alpha = 0.368 ( 0.023)