

^{91}Y $Z = 39$ $N = 52$ adopted link ENSDF link

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

BE = 790.330 (0.002) MeV

Qbeta- = 1.544 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
91Y 1			0.000	1/2-	1 58.51 D 6
91Y 2	0.556	9/2+			2 49.71 M 4
91Y 3			0.653	3/2-	3
91Y 4			0.926	5/2-	4
91Y 5				1.187 (7/2)-	5
91Y 6				1.305 (5/2)+	6
91Y 7			1.474	3/2-	7
91Y 8				1.485 (13/2+)	8
91Y 9				1.546 (5/2)-	9
91Y 10				1.547 7/2-,9/2-	10
91Y 11				1.580 5/2+,7/2+	11
91Y 12				1.980 (5/2)-	12
91Y 13				2.067 (5/2)+	13
91Y 14				2.129 3/2,5/2,7/2	14
91Y 15				2.157 (17/2+)	15
91Y 16				2.158 3/2-,5/2-	16
91Y 17			2.207	5/2-	17
91Y 18				2.279 (5/2+,7/2-)	18
91Y 19				2.412 (3/2-)	19
91Y 20			2.471	3/2-	20
91Y 21				2.530 (5/2-)	21
91Y 22			2.568	1/2-	22
91Y 23				2.572 (5/2+,7/2,9/2-)	23
91Y 24				2.631	24
91Y 25				2.689 (7/2-,9/2-)	25
91Y 26				2.762 (15/2,17/2)	26
91Y 27				2.780 (9/2+)	27
91Y 28				2.822	28
91Y 29				2.960 (3/2-)	29
91Y 30				2.980 (1/2-)	30
91Y 31			3.045	1/2-	31
91Y 32				3.100 (9/2-)	32
91Y 33				3.163 (15/2,17/2)	33
91Y 34				3.196 (7/2-,9/2,11/2+)	34
91Y 35				3.227 (9/2+,11/2+)	35
91Y 36				3.284 7/2-,9/2-	36
91Y 37				3.320 11/2-,13/2-	37

91Y	38	|	|	|	3.353	7/2-,9/2-	38
91Y	39	|	|	|	3.414	7/2-,9/2-	39
91Y	40	|	|	|	3.445	7/2-,9/2-	40

91Y	41	|	|	|	3.502	5/2+,7/2,9/2-	41
91Y	42	|	|	|	3.528	(21/2+)	42
91Y	43	|	|	|	3.544	11/2-,13/2-	43
91Y	44	|	|	|	3.568	(19/2,21/2)	44
91Y	45	|	|	|	3.611	(3/2-,5/2-)	45
91Y	46	|	|	|	3.684	(3/2-,5/2,7/2+)	46
91Y	47	|	|	|	3.733	(19/2,21/2)	47
91Y	48	|	|	|	3.751	5/2+,7/2,9/2-	48
91Y	49	|	|	|	3.793	9/2+,11/2+	49
91Y	50	|	|	|	3.839	9/2+,11/2+	50

91Y	51	|	|	|	3.870	3/2-,5/2-	51
91Y	52	|	|	|	3.938	(9/2+,11/2+)	52
91Y	53	|	|	|	3.966	(3/2-,5/2-)	53
91Y	54	|	|	|	4.064		54
91Y	55	|	|	|	4.096	(3/2-,5/2-)	55
91Y	56	|	|	|	4.147	(23/2,25/2+)	56

S-alpha=	4.178	(	0.002)	-----			
91Y	57	|	|	|	4.190		57
91Y	58	|	|	|	4.225	(1/2-)	58
91Y	59	|	|	|	4.451	(3/2-,5/2-)	59
91Y	60	|	|	|	4.481	(25/2+)	60

91Y	61	|	|	|	4.611		61
91Y	62	|	|	|	4.808		62
91Y	63	|	|	|	5.575		63
91Y	64	|	|	|	5.778		64
91Y	65	|	|	|	6.503		65
91Y	66	|	|	|	6.896		66

S-p	=	7.689	(	0.002)	-----		
S-n	=	7.926	(	0.002)	-----		
S-2p	=	19.217	(	0.006)	-----		
S-2n	=	14.783	(	0.002)	-----		
S-alpha=	4.178	(	0.002)	-----			

S+p	=	-9.397	(	0.002)			
S+n	=	-6.536	(	0.009)			
S+2p	=	-15.439	(	0.002)			
S+2n	=	-14.018	(	0.011)			
S+alpha	=	-2.860	(	0.002)			

gap p	=	-1.707	(	0.003)			
gap n	=	1.389	(	0.009)			
gap 2p	=	3.778	(	0.006)			

gap 2n = 0.764 (0.011)
gap alpha = 1.319 (0.003)