

$^{91}\text{Tc}$        $Z = 43$        $N = 48$       adopted link      ENSDF link

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

BE = 776.836 ( 0.002) MeV

Qbeta+ = 6.222 ( 0.007) MeV

	Energy T	J+	J-	J-other	T1/2		
91TC	1			0.000	(9/2)+	1	3.14 M 2
91TC	2			0.139	(1/2)-	2	3.3 M 1
91TC	3			0.395	(7/2)+	3	
91TC	4			0.699	(7/2+)	4	
91TC	5			0.885	(5/2-)	5	
91TC	6			0.893	(13/2+)	6	
91TC	7			0.905		7	
91TC	8			1.097	(11/2+)	8	
91TC	9			1.248		9	
91TC	10			1.339		10	
91TC	11			1.465		11	
91TC	12			1.533	(11/2+)	12	
91TC	13			1.556	(9/2-)	13	
91TC	14			1.766		14	
91TC	15			1.821	(17/2+)	15	
91TC	16			1.943	(13/2-)	16	
91TC	17			1.998		17	
91TC	18			2.045	(15/2+)	18	
91TC	19			2.137	(21/2+)	19	1.85 NS 3
91TC	20			2.153	(17/2-)	20	1.07 NS 6
91TC	21			2.768	(23/2+)	21	0.7 PS LT
91TC	22			2.981	(21/2-)	22	3.3 PS 7
S-p	=	3.103 ( 0.004)					
91TC	23			3.136	(25/2+)	23	0.7 PS LT
91TC	24			3.345	(25/2+)	24	1.2 PS 9
91TC	25			3.804	(25/2-)	25	4.6 PS 5
91TC	26			4.080	(25/2-)	26	3.5 PS 10
91TC	27			4.119	(27/2+)	27	1.4 PS LT
91TC	28			4.355	(29/2+)	28	1.5 PS 4
S-alpha	=	4.537 ( 0.007)					
91TC	29			4.595	(27/2-)	29	0.7 PS LT
91TC	30			4.703	(29/2-)	30	
91TC	31			4.750	(29/2+)	31	
91TC	32			4.936	(29/2-)	32	0.7 PS LT
91TC	33			5.078	(31/2-)	33	3.3 PS 3
91TC	34			5.091	(31/2+)	34	1.4 PS LT
91TC	35			5.268	(33/2+)	35	6.4 PS 4

91TC 36				5.383	(31/2+)	36		
91TC 37				5.567	(33/2-)	37	0.7 PS	LT
91TC 38				5.776	(33/2+)	38		
91TC 39				5.934	(35/2+)	39	0.49 PS	+35-21
91TC 40				6.159	(35/2-)	40	1.46 PS	21
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91TC 41				6.192	(33/2+)	41		
91TC 42				6.452	(37/2+)	42	0.8 PS	6
91TC 43				6.616	(37/2-)	43	0.83 PS	14
91TC 44				6.691		44		
91TC 45				6.843	(35/2+)	45		
91TC 46				7.293	(37/2+)	46		
91TC 47				7.505	(39/2-)	47		
91TC 48				7.668	(37/2+)	48		
91TC 49				7.716	(41/2-)	49	0.83 PS	21
91TC 50				7.993		50		
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91TC 51				8.141	(39/2+)	51		
91TC 52				8.277	(39/2+)	52		
91TC 53				8.392	(41/2+)	53	0.37 PS	4
91TC 54				8.559		54		
91TC 55				8.836	(41/2+)	55	4.0 PS	4
91TC 56				9.009	(41/2+)	56		
91TC 57				9.300	(43/2+)	57	0.9 PS	4
91TC 58				9.717	(45/2-)	58		

S-p = 3.103 ( 0.004)-----  
S-n = 13.333 ( 0.003)-----  
S-2p = 9.939 ( 0.024)-----  
S-2n = 24.734 ( 0.004)-----  
S-alpha= 4.537 ( 0.007)-----

S+p = -5.604 ( 0.004)  
S+n = -11.010 ( 0.004)  
S+2p = -7.603 ( 0.004)  
S+2n = -23.762 ( 0.003)  
S+alpha = -4.779 ( 0.005)

gap p = -2.500 ( 0.006)  
gap n = 2.323 ( 0.005)  
gap 2p = 2.336 ( 0.024)  
gap 2n = 0.972 ( 0.005)  
gap alpha = -0.242 ( 0.009)