

^{89}Tc $Z = 43$ $N = 46$ adopted link ENSDF link

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

BE = 752.101 (0.004) MeV

Qbeta+ = 7.620 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
89TC 1				0.000 (9/2+)	1 12.8 S 9
89TC 2				0.063 (1/2-)	2 12.9 S 8
89TC 3				0.179 (7/2+)	3
89TC 4				0.402 (5/2+)	4
89TC 5				0.790 (5/2-)	5
89TC 6				0.796 (13/2+)	6 8.3 PS LT
89TC 7				0.998 (7/2-)	7
89TC 8				1.015 (7/2+)	8
89TC 9				1.101 (11/2+)	9
89TC 10				1.332 (9/2-)	10
89TC 11				1.518 (5/2+)	11
89TC 12				1.682 (11/2-)	12
89TC 13				1.732 (17/2+)	13 9.0 PS LT
89TC 14				1.897 (13/2-)	14
S-p =	1.997 (0.005)				
89TC 15				2.032 (17/2+)	15
89TC 16				2.044 (15/2+)	16
89TC 17				2.320 (17/2-)	17
89TC 18				2.427 (21/2+)	18 26 PS LT
89TC 19				2.530 (17/2-)	19
89TC 20				2.924 (19/2-)	20
89TC 21				3.103 (23/2+)	21
89TC 22				3.113 (21/2-)	22
89TC 23				3.218 (25/2+)	23
89TC 24				3.311 (21/2-)	24
S-alpha=	3.540 (0.006)				
89TC 25				4.065 (25/2-)	25
89TC 26				4.224 (25/2-)	26
89TC 27				4.243 (29/2+)	27
89TC 28				4.714 (27/2-)	28
89TC 29				4.942 (29/2-)	29
89TC 30				5.114 (29/2-)	30
89TC 31				5.329 (33/2+)	31
89TC 32				5.332 (31/2-)	32
89TC 33				5.651 (33/2-)	33
89TC 34				6.190 (35/2+)	34
89TC 35				6.414 (35/2-)	35

89TC	36				6.546	(37/2+)	36
89TC	37				6.612	(37/2-)	37
89TC	38				7.011	(37/2+)	38
89TC	39				7.402	(39/2+)	39
89TC	40				7.766	(41/2-)	40

89TC	41				7.772	(41/2+)	41
S-2p	=	8.098	(0.008)	-----			
89TC	42				9.110	(45/2+)	42
89TC	43				9.163	(45/2-)	43
S-p	=	1.997	(0.005)	-----			
S-n	=	13.796	(0.006)	-----			
S-2p	=	8.098	(0.008)	-----			
S-2n	=	25.847	(0.006)	-----			
S-alpha	=	3.540	(0.006)	-----			
S+p	=	-4.778	(0.005)				
S+n	=	-11.401	(0.004)				
S+2p	=	-5.747	(0.273)				
S+2n	=	-24.734	(0.004)				
S+alpha	=	-4.042	(0.005)				
gap p	=	-2.781	(0.008)				
gap n	=	2.395	(0.007)				
gap 2p	=	2.352	(0.273)				
gap 2n	=	1.113	(0.007)				
gap alpha	=	-0.502	(0.007)				