

^{101}Tc $Z = 43$ $N = 58$ adopted link ENSDF link

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

BE = 867.907 (0.024) MeV

Qbeta- = 1.614 (0.024) MeV

	Energy T	J+	J-	J-other	T1/2	
101TC 1	0.000	9/2+			1 14.22 M 1	
101TC 2	0.009	7/2+			2 14.3 NS 3	
101TC 3	0.016	5/2+			3 26.8 NS 6	
101TC 4			0.208	1/2-	4 636 US 8	
101TC 5			0.288	3/2-	5	
101TC 6			0.395	5/2-	6	
101TC 7			0.500	5/2-	7	
101TC 8	0.515	5/2+			8	
101TC 9				0.521	9	
101TC 10	0.534	7/2+			10	
101TC 11	0.589	11/2+			11	
101TC 12				0.606	1/2+,3/2+	12
101TC 13				0.616	3/2-,5/2-	13
101TC 14			0.619	7/2-		14
101TC 15				0.622	(1/2-,3/2-)	15
101TC 16	0.642	13/2+				16
101TC 17			0.670	5/2-		17
101TC 18			0.677	5/2-		18
101TC 19				0.711	3/2+,5/2+	19
101TC 20				0.742		20
101TC 21				0.778		21
101TC 22			0.885	9/2-		22
101TC 23				0.887		23
101TC 24				0.912		24
101TC 25			0.947	11/2-		25
101TC 26				0.981	3/2-,5/2-	26
101TC 27				1.028	(3/2+)	27
101TC 28				1.034	5/2-,(7/2-)	28
101TC 29				1.043	(9/2-)	29
101TC 30				1.045	1/2-,3/2-	30
101TC 31				1.104		31
101TC 32				1.122		32
101TC 33			1.171	11/2-		33
101TC 34				1.175		34
101TC 35				1.188	1/2-,3/2-	35
101TC 36				1.191	5/2-,7/2-	36
101TC 37				1.197	(1/2-,3/2-)	37

101TC 38						1.232		38
101TC 39						1.250		39
101TC 40						1.265	13/2+, (15/2+)	40

101TC 41						1.271		41
101TC 42						1.280	3/2+, 5/2+	42
101TC 43						1.295	9/2+, 11/2+	43
101TC 44		1.320	3/2+					44
101TC 45						1.323		45
101TC 46						1.331	(15/2+)	46
101TC 47						1.400	(17/2+)	47
101TC 48						1.422	7/2-, 9/2-, 11/2-	48
101TC 49						1.429	3/2+, 5/2+	49
101TC 50						1.442		50

101TC 51				1.478	7/2-			51
101TC 52						1.490	3/2, 5/2+	52
101TC 53				1.500	13/2-			53
101TC 54						1.521		54
101TC 55						1.535	9/2+, 13/2+	55
101TC 56						1.559		56
101TC 57						1.565		57
101TC 58						1.578	3/2+, 5/2+	58
101TC 59						1.595		59
101TC 60						1.599		60

101TC 61						1.615		61
101TC 62		1.618	1/2+					62
101TC 63						1.644		63
101TC 64						1.678		64
101TC 65						1.703	3/2+, 5/2+	65
101TC 66						1.775		66
101TC 67						1.806	1/2+, 3/2+	67
101TC 68						1.809		68
101TC 69						1.837		69
101TC 70						1.844	(15/2-)	70

101TC 71						1.893		71
101TC 72						1.898	1/2+, 3/2+	72
101TC 73						1.929		73
101TC 74						1.962	1/2+, 3/2+	74
101TC 75						2.001		75
101TC 76						2.048	1/2+, 3/2+	76
101TC 77						2.057	(1/2+, 3/2+)	77
101TC 78						2.130	(1/2+, 3/2+)	78
101TC 79						2.171	(19/2+)	79
101TC 80						2.171		80

101TC 81						2.174		81
101TC 82						2.218	(1/2+, 3/2+)	82

101TC 83				2.238	(1/2+,3/2+)	83
101TC 84				2.250	(17/2-)	84
101TC 85				2.272	(21/2+)	85
101TC 86				2.401	(19/2+)	86
101TC 87				2.413	(19/2-)	87
101TC 88				2.442	(1/2+,3/2+)	88
101TC 89				2.558	(1/2+,3/2+)	89
101TC 90				2.574	(1/2+,3/2+)	90

101TC 91				2.616	(21/2-)	91
101TC 92				2.871	(23/2-)	92
101TC 93				2.918	(21/2+,23/2+)	93
101TC 94				3.096	(25/2-)	94
101TC 95				3.135	(23/2+,25/2+)	95
S-alpha=	3.167	(0.024)	-----			
101TC 96				3.500	(25/2+,27/2+)	96
101TC 97				3.887	(27/2+,29/2+)	97
101TC 98				4.231	(29/2+,31/2+)	98
S-p	=	7.440	(0.024)	-----		
S-n	=	8.395	(0.024)	-----		
S-2p	=	18.587	(0.027)	-----		
S-2n	=	15.159	(0.024)	-----		
S-alpha=	3.167	(0.024)	-----			
S+p	=	-10.051	(0.024)			
S+n	=	-6.300	(0.026)			
S+2p	=	-16.265	(0.024)			
S+2n	=	-14.402	(0.026)			
S+alpha	=	-3.932	(0.024)			
gap p	=	-2.610	(0.034)			
gap n	=	2.095	(0.035)			
gap 2p	=	2.322	(0.036)			
gap 2n	=	0.757	(0.035)			
gap alpha	=	-0.765	(0.034)			