

$^{105}\text{Tc}$        $Z = 43$        $N = 62$       adopted link      ENSDF link

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

BE = 896.134 ( 0.035) MeV

Qbeta- = 3.648 ( 0.035) MeV

	Energy T	J+	J-	J-other	T1/2	
105TC	1			0.000 (3/2-)	1	7.64 M 6
105TC	2			0.077 (5/2-)	2	0.93 NS 4
105TC	3			0.085 (5/2+)	3	20.8 NS 6
105TC	4			0.148 (5/2-)	4	
105TC	5			0.150 (7/2+)	5	1.09 NS 9
105TC	6			0.236 (7/2-)	6	
105TC	7			0.250 (3/2-,5/2,7/2-)	7	
105TC	8			0.279 (9/2+)	8	
105TC	9			0.304 (3/2+)	9	6.8 NS 10
105TC	10			0.322 (1/2+)	10	9.9 NS 11
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105TC	11			0.346 (7/2-)	11	
105TC	12			0.441 (9/2-)	12	
105TC	13			0.463 (3/2-,5/2-)	13	
105TC	14			0.491 (7/2+)	14	
105TC	15			0.523 (3/2-,5/2,7/2-)	15	
105TC	16			0.530 (5/2+)	16	0.175 NS 6
105TC	17			0.558 (5/2+,7/2+,9/2+)	17	
105TC	18			0.564 (5/2+,7/2+,9/2+)	18	
105TC	19			0.593 (11/2+)	19	
105TC	20			0.610 (3/2+:9/2+)	20	
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105TC	21			0.672 (11/2-)	21	
105TC	22			0.750 (13/2+)	22	
105TC	23			0.810	23	
105TC	24			0.839 (11/2-)	24	
105TC	25			0.841 (11/2+)	25	
105TC	26			0.869 (7/2+,9/2+)	26	
105TC	27			0.881	27	
105TC	28			0.891 (9/2+)	28	
105TC	29			0.940	29	
105TC	30			0.951 (13/2-)	30	
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105TC	31			1.043 (5/2+)	31	
105TC	32			1.089	32	
105TC	33			1.172 (3/2+,5/2,7/2+)	33	
105TC	34			1.177 (15/2+)	34	
105TC	35			1.235 (15/2-)	35	
105TC	36			1.349 (15/2+)	36	
105TC	37			1.373 (17/2+)	37	

105TC	38				1.397	(13/2+)	38
105TC	39				1.415	(1/2+:7/2+)	39
105TC	40				1.476	(5/2+)	40
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105TC	41				1.576	(17/2-)	41
105TC	42				1.820	(5/2+,7/2)	42
105TC	43				1.869	(19/2+)	43
105TC	44				1.891	(3/2-,5/2-,7/2-	44)
105TC	45				1.898	(19/2-)	45
105TC	46				2.002	(19/2+)	46
105TC	47				2.118	(21/2+)	47
105TC	48				2.195		48
105TC	49				2.212	(5/2+,7/2+,9/2+	49)
105TC	50				2.282	(21/2-)	50
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105TC	51				2.622	(23/2+)	51
105TC	52				2.630	(23/2-)	52
105TC	53				2.759	(23/2+)	53
105TC	54				2.766	(5/2-,7/2-)	54
105TC	55				2.931	(25/2+)	55
105TC	56				3.251	(27/2-)	56
105TC	57				3.348	(27/2+)	57
105TC	58				3.716	(29/2+)	58

S-p = 9.232 ( 0.036)-----  
S-n = 7.859 ( 0.043)-----  
S-2p = 21.836 ( 0.035)-----  
S-2n = 13.825 ( 0.037)-----  
S-alpha= 5.820 ( 0.035)-----

S+p = -11.326 ( 0.036)  
S+n = -5.561 ( 0.037)  
S+2p = -19.155 ( 0.037)  
S+2n = -12.606 ( 0.036)  
S+alpha = -5.138 ( 0.035)

gap p = -2.094 ( 0.051)  
gap n = 2.297 ( 0.057)  
gap 2p = 2.680 ( 0.051)  
gap 2n = 1.219 ( 0.052)  
gap alpha = 0.682 ( 0.050)