

^{161}Tm $Z = 69$ $N = 92$ adopted link ENSDF link

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

BE = 1307.399 (0.028) MeV

Qbeta+ = 3.302 (0.029) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-2.509	(0.036)	-----		
161TM 1	0.000	7/2+			1 30.2 M 8
161TM 2	0.008	1/2+			2
161TM 3	0.019	5/2+			3 50 NS LT
161TM 4	0.023	3/2+			4
161TM 5			0.078	7/2-	5 110 NS 3
161TM 6			0.149	9/2-	6
161TM 7	0.159	7/2+			7
161TM 8	0.162	9/2+			8
161TM 9	0.167	5/2+			9
161TM 10	0.211	7/2+			10

161TM 11			0.255	11/2-	11
161TM 12	0.327	9/2+			12
161TM 13				0.338 1/2+,3/2+	13
161TM 14	0.348	11/2+			14
161TM 15			0.367	1/2-	15
161TM 16			0.377	5/2-	16
161TM 17			0.417	13/2-	17
161TM 18				0.433 3/2+,5/2,7/2+	18
161TM 19				0.466	19
161TM 20	0.516	11/2+			20

161TM 21			0.517	9/2-	21
161TM 22	0.531	11/2+			22
161TM 23	0.557	13/2+			23
161TM 24			0.577	15/2-	24 7.5 PS 17
161TM 25				0.626	25
161TM 26				0.639	26
161TM 27				0.648	27
161TM 28			0.678	5/2-	28
161TM 29			0.710	5/2-	29
161TM 30			0.756	13/2-	30

161TM 31	0.789	15/2+			31
161TM 32			0.816	17/2-	32 3.6 PS 11
161TM 33	0.989	15/2+			33
161TM 34			1.008	19/2-	34 2.6 PS 10
161TM 35	1.037	17/2+			35
161TM 36			1.080	17/2-	36

161TM	37	|		|		|	1.181			37		
161TM	38	|	1.305	19/2+	|					38		
161TM	39	|			|	1.310	21/2-			39	1.7 PS	4
161TM	40	|			|	1.496	21/2-			40	2.7 PS	3

161TM	41	|			|	1.526	23/2-			41	1.1 PS	3
161TM	42	|	1.582	21/2+	|					42		
161TM	43	|			|	1.874	25/2-			43	0.55 PS	7
161TM	44	|	1.877	23/2+	|					44		
161TM	45	|			|	1.996	25/2-			45	0.96 PS	5
161TM	46	|			|	2.109	27/2-			46	1.0 PS	3
161TM	47	|	2.172	25/2+	|					47		
161TM	48	|	2.478	27/2+	|					48		
161TM	49	|			|	2.481	29/2-			49	0.49 PS	14
161TM	50	|			|	2.570	29/2-			50		

161TM	51	|			|	2.737	31/2-			51		
161TM	52	|	2.786	29/2+	|					52		
161TM	53	|			|	3.051	33/2-			53		
161TM	54	|	3.110	31/2+	|					54		
161TM	55	|			|			3.117	(33/2-)	55		
S-p	=		3.124	(0.037)	-----							
161TM	56	|			|	3.206	33/2-			56		
161TM	57	|			|	3.255	35/2-			57		
161TM	58	|			|	3.381	35/2-			58		
161TM	59	|	3.441	33/2+	|					59		
161TM	60	|			|	3.477	37/2-			60		

161TM	61	|			|			3.723	(37/2-)	61		
161TM	62	|			|	3.740	39/2-			62		
161TM	63	|	3.779	35/2+	|					63		
161TM	64	|			|			3.886	(37/2-)	64		
161TM	65	|			|	4.013	41/2-			65	0.42 PS	10
161TM	66	|			|			4.084	(39/2-)	66		
161TM	67	|	4.130	37/2+	|					67		
161TM	68	|			|	4.330	43/2-			68	0.42 PS	10
161TM	69	|			|			4.492	(39/2+)	69		
161TM	70	|			|			4.578	(41/2-)	70		

161TM	71	|			|	4.656	45/2-			71	0.28 PS	+15-8
161TM	72	|			|			4.867	(41/2+)	72		
161TM	73	|			|	5.017	47/2-			73	0.21 PS	+21-12
161TM	74	|			|			5.267	(43/2+)	74		
161TM	75	|			|			5.270	(45/2-)	75		
161TM	76	|			|	5.394	49/2-			76	0.14 PS	3
161TM	77	|			|			5.675	(45/2+)	77		
161TM	78	|			|	5.789	51/2-			78	0.10 PS	3
161TM	79	|			|			5.988	(49/2-)	79		
161TM	80	|			|			6.113	(47/2+)	80		

161TM	81	|		|	6.217		53/2-			81	0.18	PS	LE
161TM	82	|		|		6.560	(49/2+)			82			
161TM	83	|		|		6.633	(55/2-)			83	0.11	PS	4
161TM	84	|		|		6.726	(53/2-)			84			
161TM	85	|		|		7.037	(51/2+)			85			
161TM	86	|		|		7.110	(57/2-)			86	0.08	PS	4
161TM	87	|		|		7.519	(53/2+)			87			
161TM	88	|		|		7.534	(59/2-)			88	0.07	PS	3
161TM	89	|		|		8.053	(61/2-)			89	0.07	PS	2
161TM	90	|		|		8.476	(63/2-)			90	0.07	PS	2

161TM	91	|		|		9.034	(65/2-)			91	0.11	PS	4
S-2p	=		9.147	(	0.028)	-----							
161TM	92	|		|		9.458	(67/2-)			92	0.11	PS	4
S-p	=		3.124	(	0.037)	-----							
S-n	=		9.669	(	0.043)	-----							
S-2p	=		9.147	(	0.028)	-----							
S-2n	=		17.471	(	0.040)	-----							
S-alpha	=		-2.509	(	0.036)	-----							
S+p	=		-5.211	(	0.032)								
S+n	=		-7.650	(	0.038)								
S+2p	=		-7.471	(	0.040)								
S+2n	=		-16.972	(	0.028)								
S+alpha	=		3.032	(	0.039)								
gap p	=		-2.088	(	0.049)								
gap n	=		2.019	(	0.058)								
gap 2p	=		1.677	(	0.049)								
gap 2n	=		0.499	(	0.049)								
gap alpha	=		0.522	(	0.053)								