

^{118}Te $Z = 52$ $N = 66$ adopted link ENSDF link

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

BE = 999.424 (0.018) MeV

Qbeta+ = 0.305 (0.019) MeV

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

S-alpha=	-0.444	(0.018)	-----		
118TE 1	0.000	0+			1 6.00 D 2
118TE 2	0.606	2+			2
118TE 3				0.934	3
118TE 4	0.957	0+			4 55 PS 45
118TE 5	1.151	2+			5
118TE 6				1.164	6
118TE 7	1.206	4+			7
118TE 8				1.482	1+,2+ 8
118TE 9	1.517	0+			9
118TE 10				1.661	10

118TE 11				1.703	(4)+ 11
118TE 12	1.821	6+			12
118TE 13				1.863	1,2+ 13
118TE 14				1.892	(3)+ 14
118TE 15			1.945	3-	15
118TE 16				1.976	(4)+ 16
118TE 17				2.021	17
118TE 18				2.150	(6)+ 18
118TE 19				2.226	19
118TE 20				2.230	(4)+ 20

118TE 21				2.285	21
118TE 22				2.322	22
118TE 23				2.353	23
118TE 24				2.368	(5)+ 24
118TE 25				2.373	25
118TE 26				2.422	26
118TE 27				2.438	27
118TE 28				2.501	28
118TE 29				2.517	5 29
118TE 30				2.532	30

118TE 31				2.571	31
118TE 32	2.574	8+			32
118TE 33				2.612	33
118TE 34				2.622	34
118TE 35				2.730	35
118TE 36				2.762	36

118TE 37						2.813				37	
118TE 38						2.852				38	
118TE 39						2.863				39	
118TE 40						2.914	(6+)			40	

118TE 41						2.919	(7)+			41	
118TE 42						2.968				42	
118TE 43		2.999	8+							43	
118TE 44						3.000	(6-,7-)			44	
118TE 45						3.079	(6+)			45	
118TE 46						3.108				46	
118TE 47						3.114				47	
118TE 48						3.169				48	
118TE 49						3.189	(8-)		0.23 NS	8	
118TE 50						3.192				50	

118TE 51						3.253				51	
118TE 52		3.360	10+							52	
118TE 53						3.400	(8-,9)			53	
118TE 54						3.439				54	
118TE 55		3.445	10+							55	
118TE 56						3.460	(8-,9)			56	
118TE 57						3.587	(9)+			57	
118TE 58						3.602				58	
118TE 59						3.680	(8-,9)			59	
118TE 60						3.835	(9,10)+			60	

118TE 61						3.881	(10-)			61	
118TE 62						4.138	(10-,11)			62	
118TE 63		4.172	12+							63	
118TE 64		4.219	12+							64	
118TE 65						4.221	(10-,11)			65	
118TE 66						4.288	(12-)			66	
118TE 67						4.348	(11)+			67	
118TE 68						4.582	(-)			68	
118TE 69						4.856				69	
118TE 70						4.868	(12-,13)			70	

118TE 71		4.946	14+							71	
118TE 72						4.965				72	
118TE 73						5.123	(14+)			73	
118TE 74						5.347				74	
118TE 75						5.545				75	
118TE 76						5.599				76	

S-p =		6.340	(0.020)	-----							
118TE 77						6.715				77	
118TE 78						6.743				78	
118TE 79						7.615				79	
118TE 80						7.862				80	

118TE	81				8.049	81
118TE	82				8.423	82
118TE	83				8.907	83
118TE	84				9.028	84
118TE	85				9.536	85
118TE	86				9.924	86

S-p = 6.340 (0.020)-----
 S-n = 10.667 (0.023)-----
 S-2p = 10.743 (0.018)-----
 S-2n = 18.570 (0.030)-----
 S-alpha= -0.444 (0.018)-----

S+p = -3.376 (0.028)
 S+n = -7.563 (0.020)
 S+2p = -9.060 (0.022)
 S+2n = -17.814 (0.018)
 S+alpha = -0.089 (0.021)

gap p = 2.964 (0.035)
 gap n = 3.104 (0.030)
 gap 2p = 1.683 (0.028)
 gap 2n = 0.756 (0.035)
 gap alpha = -0.533 (0.028)