

^{116}Te $Z = 52$ $N = 64$ adopted link ENSDF link

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

BE = 980.855 (0.024) MeV

Qbeta+ = 1.558 (0.025) MeV

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

S-alpha=	-0.966	(0.024)	-----				
116TE 1	0.000	0+					1 2.49 H 4
116TE 2	0.679	2+					2
116TE 3					1.060		3
116TE 4	1.219	2+					4
116TE 5	1.359	4+					5
116TE 6	1.638	3+					6
116TE 7	1.746	4+					7
116TE 8	1.812	4+					8
116TE 9	2.002	6+					9
116TE 10					2.081	(1,2+)	10

116TE 11					2.119	3-,4-,5-	11
116TE 12					2.340	(5)+	12
116TE 13					2.556	3-,4-,5-	13
116TE 14					2.565	(6)+	14
116TE 15	2.773	8+					15
116TE 16					2.966	(6)-	16
116TE 17			3.027	7-			17
116TE 18			3.175	8-			18
116TE 19					3.190	(7)-	19
116TE 20					3.245	(7)+	20

116TE 21					3.342		21
116TE 22			3.430	9-			22
116TE 23	3.575	10+					23
116TE 24	3.684	10+					24
116TE 25	3.699	10+					25
116TE 26					3.747	(9-)	26
116TE 27			3.752	10-			27
116TE 28			3.994	10-			28
116TE 29					4.228	(11)-	29
116TE 30					4.328	(11-)	30

116TE 31	4.339	12+					31
116TE 32					4.437	(12-)	32
116TE 33					4.586	(12+)	33
116TE 34			4.705	12-			34
116TE 35					4.920	(13)-	35
116TE 36					4.995	(13-)	36

116TE 37		5.110	14+						37
116TE 38							5.198	(14)-	38
116TE 39							5.236	(14-)	39
116TE 40							5.473	(14+)	40

S-p	=	5.549 (0.029)-----							
116TE 41		5.622	16+						41
116TE 42							5.721	(15-)	42
116TE 43							5.776	(15-)	43
116TE 44							6.106	(16+)	44
116TE 45							6.129	(16-)	45
116TE 46							6.142	(16-)	46
116TE 47							6.274	(16+)	47
116TE 48							6.652	(17-)	48
116TE 49							6.659	(17)	49
116TE 50		6.673	18+						50

116TE 51					7.092		19-		51
116TE 52							7.160	(18+)	52
116TE 53							7.174	(18-)	53
116TE 54							7.307	(18-)	54
116TE 55							7.642	(19)	55
116TE 56		7.642	20+						56
116TE 57							7.729	(19-)	57
116TE 58					8.120		21-		58
116TE 59							8.123	(20+)	59
116TE 60							8.173	(20-)	60

116TE 61					8.668		22-		61
116TE 62							8.683	(21)	62
116TE 63					8.995		23-		63
116TE 64							9.172	(22+)	64
116TE 65							9.205	(22-)	65

S-2p	=	9.282 (0.024)-----							
116TE 66					9.756		24-		66
116TE 67							9.776	(23)	67

S-p	=	5.549 (0.029)-----							
S-n	=	11.272 (0.037)-----							
S-2p	=	9.282 (0.024)-----							
S-2n	=	19.517 (0.034)-----							
S-alpha	=	-0.966 (0.024)-----							

S+p	=	-2.464 (0.035)							
S+n	=	-7.903 (0.028)							
S+2p	=	-7.393 (0.026)							
S+2n	=	-18.570 (0.030)							
S+alpha	=	0.666 (0.027)							

gap p = 3.086 (0.046)
gap n = 3.369 (0.046)
gap 2p = 1.889 (0.036)
gap 2n = 0.947 (0.046)
gap alpha = -0.300 (0.036)