

$^{138}\text{Te}$        $Z = 52$        $N = 86$       adopted link      ENSDF link

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

BE = 1138.856 ( 0.004) MeV

Qbeta- = 6.284 ( 0.007) MeV

	Energy T	J+	J-	J-other	T1/2
138TE 1	0.000	0+			1 1.4 S 4
138TE 2				0.461 (2+)	2
138TE 3				0.904 (4+)	3
138TE 4				1.323	4
138TE 5				1.439 (6+)	5
138TE 6				1.531	6
138TE 7				1.581	7
138TE 8				1.615 (3+,4+)	8
138TE 9				1.682	9
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S-alpha=	1.687 ( 0.005)				
138TE 10				1.774 (5+,6+)	10
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138TE 11				1.863 (5+,6+)	11
138TE 12				2.022 (7+)	12
138TE 13				2.040	13
138TE 14				2.088 (8+)	14
138TE 15				2.152 (5,6+)	15
138TE 16				2.199 (8+)	16
138TE 17				2.534 (7,8+)	17
138TE 18				2.589 (9+)	18
138TE 19				2.674 (10+)	19
138TE 20				2.760 (10+)	20
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138TE 21				3.069 (11+)	21
138TE 22				3.209 (12+)	22
138TE 23				3.472 (13+)	23
138TE 24				3.743 (14+)	24
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S-n	4.464 ( 0.004)				
138TE 25				4.471	25
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S-p	12.924 ( 0.052)				
S-n	4.464 ( 0.004)				
S-2p	24.064 ( 0.136)				
S-2n	7.413 ( 0.004)				
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S-alpha=	1.687 ( 0.005)				
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S+p	-10.064 ( 0.006)				
S+n	-2.581 ( 0.005)				
S+2p	-21.869 ( 0.004)				

S+2n = -6.814 ( 0.015)  
S+alpha = -1.959 ( 0.005)

gap p = 2.860 ( 0.053)  
gap n = 1.883 ( 0.007)  
gap 2p = 2.195 ( 0.136)  
gap 2n = 0.599 ( 0.016)  
gap alpha = -0.272 ( 0.007)