

$^{125}\text{Te}$        $Z = 52$        $N = 73$       adopted link      ENSDF link

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

BE = 1057.255 ( 0.001) MeV

|          | Energy T | J+   | J-          | J-other             | T1/2          |
|----------|----------|------|-------------|---------------------|---------------|
| 125TE 1  | 0.000    | 1/2+ |             |                     | 1 STABLE      |
| 125TE 2  | 0.035    | 3/2+ |             |                     | 2 1.482 NS 8  |
| 125TE 3  |          |      | 0.145 11/2- |                     | 3 57.40 D 15  |
| 125TE 4  |          |      | 0.321 9/2-  |                     | 4 0.673 NS 13 |
| 125TE 5  | 0.402    | 7/2+ |             |                     | 5             |
| 125TE 6  | 0.444    | 3/2+ |             |                     | 6 19.1 PS 6   |
| 125TE 7  | 0.463    | 5/2+ |             |                     | 7 13.2 PS 5   |
| 125TE 8  |          |      | 0.525 7/2-  |                     | 8 160 PS LE   |
| 125TE 9  |          |      |             | 0.538 (1/2+)        | 9             |
| 125TE 10 | 0.636    | 7/2+ |             |                     | 10 40 PS 20   |
| 125TE 11 | 0.642    | 7/2+ |             |                     | 11 70 PS LE   |
| 125TE 12 |          |      |             | 0.653 (5/2)         | 12            |
| 125TE 13 | 0.671    | 5/2+ |             |                     | 13 1.26 PS 6  |
| 125TE 14 | 0.729    | 3/2+ |             |                     | 14            |
| 125TE 15 |          |      | 0.787 7/2-  |                     | 15            |
| 125TE 16 |          |      |             | 0.805 (15/2-)       | 16            |
| 125TE 17 |          |      |             | 0.841 15/2(-)       | 17            |
| 125TE 18 |          |      |             | 1.018 7/2(+)        | 18            |
| 125TE 19 |          |      |             | 1.029 9/2(+)        | 19            |
| 125TE 20 |          |      |             | 1.054 3/2+,5/2+     | 20            |
| 125TE 21 |          |      |             | 1.066 3/2+,5/2+     | 21            |
| 125TE 22 |          |      | 1.072 5/2-  |                     | 22            |
| 125TE 23 |          |      |             | 1.091 3/2+,5/2+     | 23            |
| 125TE 24 |          |      |             | 1.133 3/2+,5/2+     | 24            |
| 125TE 25 |          |      |             | 1.149 7/2+,9/2+     | 25            |
| 125TE 26 |          |      |             | 1.192 (11/2+)       | 26            |
| 125TE 27 |          |      |             | 1.210 5/2-,7/2,9/2  | 27            |
| 125TE 28 |          |      |             | 1.243 1/2+,3/2,5/2+ | 28            |
| 125TE 29 |          |      |             | 1.246               | 29            |
| 125TE 30 |          |      |             | 1.265 3/2+,5/2+     | 30            |
| 125TE 31 |          |      |             | 1.311 15/2(-)       | 31            |
| 125TE 32 |          |      |             | 1.315 7/2+,9/2+     | 32            |
| 125TE 33 |          |      | 1.320 3/2-  |                     | 33            |
| 125TE 34 |          |      |             | 1.322 5/2-,7/2-     | 34            |
| 125TE 35 |          |      |             | 1.358 7/2+,9/2+     | 35            |
| 125TE 36 | 1.436    | 5/2+ |             |                     | 36            |
| 125TE 37 |          |      |             | 1.501 19/2(-)       | 37            |
| 125TE 38 |          |      |             | 1.521               | 38            |

|       |    |  |       |  |      |  |       |                |    |
|-------|----|--|-------|--|------|--|-------|----------------|----|
| 125TE | 39 |  |       |  |      |  | 1.530 | 3/2+,5/2+      | 39 |
| 125TE | 40 |  |       |  |      |  | 1.570 | (15/2+)        | 40 |
| ----- |    |  |       |  |      |  |       |                |    |
| 125TE | 41 |  |       |  |      |  | 1.581 |                | 41 |
| 125TE | 42 |  | 1.587 |  | 1/2+ |  |       |                | 42 |
| 125TE | 43 |  | 1.653 |  | 5/2+ |  |       |                | 43 |
| 125TE | 44 |  |       |  |      |  | 1.670 | (3/2+,5/2+)    | 44 |
| 125TE | 45 |  |       |  |      |  | 1.700 | 3/2-           | 45 |
| 125TE | 46 |  | 1.714 |  | 1/2+ |  |       |                | 46 |
| 125TE | 47 |  |       |  |      |  | 1.732 | 7/2+,9/2+      | 47 |
| 125TE | 48 |  |       |  |      |  | 1.760 | 3/2+,5/2+      | 48 |
| 125TE | 49 |  |       |  |      |  | 1.766 | 3/2-,5/2,7/2+  | 49 |
| 125TE | 50 |  |       |  |      |  | 1.771 |                | 50 |
| ----- |    |  |       |  |      |  |       |                |    |
| 125TE | 51 |  |       |  |      |  | 1.775 | (1/2,3/2,5/2+) | 51 |
| 125TE | 52 |  |       |  |      |  | 1.813 | 3/2+,5/2+      | 52 |
| 125TE | 53 |  |       |  |      |  | 1.820 | 5/2-,7/2-      | 53 |
| 125TE | 54 |  |       |  |      |  | 1.824 |                | 54 |
| 125TE | 55 |  |       |  |      |  | 1.832 | 7/2+,9/2+      | 55 |
| 125TE | 56 |  |       |  |      |  | 1.851 | 21/2(-)        | 56 |

S-p = 8.692 ( 0.002)-----  
 S-n = 6.569 ( 0.002)-----  
 S-2p = 15.785 ( 0.003)-----  
 S-2n = 15.993 ( 0.002)-----  
 S-alpha= 2.250 ( 0.002)-----

S+p = -6.178 ( 0.004)  
 S+n = -9.114 ( 0.002)  
 S+2p = -13.877 ( 0.004)  
 S+2n = -15.401 ( 0.002)  
 S+alpha = -2.099 ( 0.001)

gap p = 2.514 ( 0.004)  
 gap n = -2.545 ( 0.003)  
 gap 2p = 1.908 ( 0.005)  
 gap 2n = 0.592 ( 0.003)  
 gap alpha = 0.151 ( 0.002)