

$^{105}\text{Sn}$        $Z = 50$        $N = 55$       adopted link      ENSDF link

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

BE = 881.709 ( 0.004) MeV

Qbeta+ = 6.303 ( 0.011) MeV

|          | Energy T        | J+    | J- | J-other             | T1/2        |
|----------|-----------------|-------|----|---------------------|-------------|
| -----    |                 |       |    |                     |             |
| S-alpha= | -0.074 ( 0.004) | ----- |    |                     |             |
| 105SN 1  |                 |       |    | 0.000 (5/2+)        | 1 32.7 S 5  |
| 105SN 2  |                 |       |    | 0.200 (7/2+)        | 2 0.33 NS 8 |
| 105SN 3  |                 |       |    | 1.194 (9/2+)        | 3           |
| 105SN 4  |                 |       |    | 1.394 (11/2+)       | 4           |
| 105SN 5  |                 |       |    | 1.849 (13/2+)       | 5           |
| 105SN 6  |                 |       |    | 1.916 (13/2+)       | 6           |
| 105SN 7  |                 |       |    | 2.031 (15/2+)       | 7           |
| 105SN 8  |                 |       |    | 2.167 (15/2+)       | 8           |
| 105SN 9  |                 |       |    | 2.204 (17/2+)       | 9 0.38 NS 5 |
| 105SN 10 |                 |       |    | 3.013 (19/2+)       | 10          |
| -----    |                 |       |    |                     |             |
| 105SN 11 |                 |       |    | 3.284 (21/2+)       | 11          |
| 105SN 12 |                 |       |    | 3.427 (17/2+)       | 12          |
| 105SN 13 |                 |       |    | 3.755 (19/2+)       | 13          |
| 105SN 14 |                 |       |    | 3.832 (21/2+)       | 14          |
| 105SN 15 |                 |       |    | 4.083 (21/2+)       | 15          |
| 105SN 16 |                 |       |    | 4.430 (23/2+)       | 16          |
| S-p =    | 4.444 ( 0.007)  | ----- |    |                     |             |
| 105SN 17 |                 |       |    | 4.551 (23/2-)       | 17          |
| 105SN 18 |                 |       |    | 5.375 (19/2+,21/2+) | 18          |
| 105SN 19 |                 |       |    | 5.529 (25/2+)       | 19          |
| 105SN 20 |                 |       |    | 5.693 (19/2+,21/2+) | 20          |
| -----    |                 |       |    |                     |             |
| 105SN 21 |                 |       |    | 5.874 (27/2-)       | 21          |
| 105SN 22 |                 |       |    | 6.126 (27/2+)       | 22          |
| 105SN 23 |                 |       |    | 6.583 (29/2-)       | 23          |
| 105SN 24 |                 |       |    | 7.040 (29/2-)       | 24          |
| S-2p =   | 7.264 ( 0.004)  | ----- |    |                     |             |
| 105SN 25 |                 |       |    | 7.340 (31/2-)       | 25          |
| 105SN 26 |                 |       |    | 7.728 (33/2-)       | 26          |
| 105SN 27 |                 |       |    | 8.194 (35/2-)       | 27          |
| 105SN 28 |                 |       |    | 8.681 (37/2-)       | 28          |
| 105SN 29 |                 |       |    | 9.137 (39/2-)       | 29          |
| 105SN 30 |                 |       |    | 9.692 (41/2-)       | 30          |
| -----    |                 |       |    |                     |             |

S-p = 4.444 ( 0.007)-----

S-n = 9.782 ( 0.007)-----

S-2p = 7.264 ( 0.004)-----  
S-2n = 22.380 ( 0.103)-----  
S-alpha= -0.074 ( 0.004)-----

S+p = -0.424 ( 0.008)  
S+n = -12.087 ( 0.006)  
S+2p = -1.897 ( 0.107)  
S+2n = -21.317 ( 0.007)  
S+alpha = 3.198 ( 0.006)

gap p = 4.020 ( 0.011)  
gap n = -2.305 ( 0.010)  
gap 2p = 5.367 ( 0.107)  
gap 2n = 1.063 ( 0.103)  
gap alpha = 3.124 ( 0.007)