

$^{97}\text{Y}$        $Z = 39$        $N = 58$       adopted link      ENSDF link

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

BE = 828.522 ( 0.007) MeV

Qbeta- = 6.821 ( 0.007) MeV

|        | Energy T | J+ | J- | J-other           | T1/2         |
|--------|----------|----|----|-------------------|--------------|
| 97Y 1  |          |    |    | 0.000 (1/2-)      | 1 3.75 S 3   |
| 97Y 2  |          |    |    | 0.668 (9/2)+      | 2 1.17 S 3   |
| 97Y 3  |          |    |    | 0.697 1/2,3/2     | 3 44 PS 3    |
| 97Y 4  |          |    |    | 0.954 (3/2-,5/2-) | 4 4 PS LE    |
| 97Y 5  |          |    |    | 1.320 (5/2+)      | 5 12 PS 5    |
| 97Y 6  |          |    |    | 1.336             | 6 3 NS LT    |
| 97Y 7  |          |    |    | 1.428 (5/2+,7/2+) | 7 21 PS 4    |
| 97Y 8  |          |    |    | 1.527             | 8            |
| 97Y 9  |          |    |    | 1.530             | 9            |
| 97Y 10 |          |    |    | 1.614 1/2,3/2     | 10           |
| 97Y 11 |          |    |    | 1.657 (13/2+)     | 11 2 NS LT   |
| 97Y 12 |          |    |    | 1.739 1/2,3/2     | 12 9 PS LE   |
| 97Y 13 |          |    |    | 1.800 (3/2-)      | 13           |
| 97Y 14 |          |    |    | 1.848             | 14           |
| 97Y 15 |          |    |    | 1.905 1/2+,3/2+   | 15 2.3 PS LT |
| 97Y 16 |          |    |    | 1.914             | 16           |
| 97Y 17 |          |    |    | 2.116             | 17           |
| 97Y 18 |          |    |    | 2.121 1/2+,3/2+   | 18 7 PS LT   |
| 97Y 19 |          |    |    | 2.212 1/2+,3/2+   | 19 3.3 PS LE |
| 97Y 20 |          |    |    | 2.287 (1/2+,3/2+) | 20           |
| 97Y 21 |          |    |    | 2.436 1/2+,3/2+   | 21           |
| 97Y 22 |          |    |    | 2.475             | 22           |
| 97Y 23 |          |    |    | 2.501             | 23           |
| 97Y 24 |          |    |    | 2.559 1/2+,3/2+   | 24           |
| 97Y 25 |          |    |    | 2.569 (17/2+)     | 25 2 NS LT   |
| 97Y 26 |          |    |    | 2.748             | 26 4 NS LT   |
| 97Y 27 |          |    |    | 2.965             | 27 2 NS LT   |
| 97Y 28 |          |    |    | 3.163             | 28           |
| 97Y 29 |          |    |    | 3.360 (21/2+)     | 29 2 NS LT   |
| 97Y 30 |          |    |    | 3.523 (27/2-)     | 30 142 MS 8  |

S-p = 10.486 ( 0.011)-----

S-n = 5.857 ( 0.009)-----

S-2p = 24.803 ( 0.021)-----

S-2n = 11.050 ( 0.010)-----

S-alpha= 5.921 ( 0.010)-----

S+p = -12.455 ( 0.011)  
S+n = -4.245 ( 0.010)  
S+2p = -20.798 ( 0.014)  
S+2n = -10.671 ( 0.009)  
S+alpha = -5.201 ( 0.008)

gap p = -1.969 ( 0.015)  
gap n = 1.612 ( 0.014)  
gap 2p = 4.005 ( 0.025)  
gap 2n = 0.379 ( 0.013)  
gap alpha = 0.720 ( 0.013)