

$^{115}\text{In}$        $Z = 49$        $N = 66$       adopted link      ENSDF link

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

BE = 979.403 ( 0.000) MeV

Qbeta- = 0.497 ( 0.000) MeV

|          | Energy T | J+    | J-         | J-other             | T1/2           |
|----------|----------|-------|------------|---------------------|----------------|
| 115IN 1  | 0.000    | 9/2+  |            |                     | 1 4.41E+14 Y25 |
| 115IN 2  |          |       | 0.336 1/2- |                     | 2 4.486 H 4    |
| 115IN 3  |          |       | 0.597 3/2- |                     | 3 0.25 NS LE   |
| 115IN 4  | 0.829    | 3/2+  |            |                     | 4 5.78 NS 6    |
| 115IN 5  | 0.864    | 1/2+  |            |                     | 5 0.91 NS 3    |
| 115IN 6  | 0.934    | 7/2+  |            |                     | 6 57 PS 5      |
| 115IN 7  | 0.941    | 5/2+  |            |                     | 7 15.1 PS 14   |
| 115IN 8  |          |       | 1.041 5/2- |                     | 8              |
| 115IN 9  | 1.078    | 5/2+  |            |                     | 9 0.99 PS 5    |
| 115IN 10 | 1.133    | 11/2+ |            |                     | 10 0.065 PS 3  |
| 115IN 11 |          |       |            | 1.192 (3/2)         | 11             |
| 115IN 12 |          |       |            | 1.287 1/2,3/2-,5/2- | 12             |
| 115IN 13 | 1.291    | 13/2+ |            |                     | 13 0.42 PS 4   |
| 115IN 14 |          |       |            | 1.347 (5/2-)        | 14             |
| 115IN 15 |          |       |            | 1.418 (11/2+)       | 15             |
| 115IN 16 | 1.449    | 9/2+  |            |                     | 16 0.35 PS 4   |
| 115IN 17 | 1.464    | 7/2+  |            |                     | 17 0.063 PS 10 |
| 115IN 18 |          |       |            | 1.470 (1/2-,3/2-)   | 18             |
| 115IN 19 |          |       |            | 1.478               | 19             |
| 115IN 20 | 1.486    | 9/2+  |            |                     | 20 0.44 PS 6   |
| 115IN 21 |          |       |            | 1.497 (7/2+)        | 21 0.17 PS 2   |
| 115IN 22 |          |       |            | 1.602 (7/2+)        | 22             |
| 115IN 23 |          |       |            | 1.608 (7/2+)        | 23 0.11 PS 2   |
| 115IN 24 |          |       |            | 1.650 (1/2-,3/2-)   | 24             |
| 115IN 25 |          |       |            | 1.737 (9/2+)        | 25             |
| 115IN 26 |          |       |            | 1.801 (5/2+)        | 26             |
| 115IN 27 |          |       |            | 1.831 (5/2+)        | 27             |
| 115IN 28 |          |       |            | 1.864               | 28             |
| 115IN 29 |          |       |            | 1.872 (9/2-)        | 29             |
| 115IN 30 |          |       |            | 1.918               | 30             |
| 115IN 31 |          |       |            | 1.972 (9/2+)        | 31             |
| 115IN 32 |          |       |            | 1.978 7/2+,9/2+     | 32             |
| 115IN 33 |          |       |            | 1.999 (7/2+)        | 33             |
| 115IN 34 |          |       |            | 2.057 (5/2+)        | 34             |
| 115IN 35 |          |       |            | 2.071 7/2,9/2-      | 35             |
| 115IN 36 |          |       |            | 2.088 (13/2)-       | 36             |
| 115IN 37 |          |       |            | 2.108 7/2,9/2,11/2- | 37             |

|          |  |       |      |  |  |       |                 |    |
|----------|--|-------|------|--|--|-------|-----------------|----|
| 115IN 38 |  |       |      |  |  | 2.114 | (9/2+)          | 38 |
| 115IN 39 |  |       |      |  |  | 2.119 | (15/2+)         | 39 |
| 115IN 40 |  |       |      |  |  | 2.131 | 1/2-,3/2-       | 40 |
| -----    |  |       |      |  |  |       |                 |    |
| 115IN 41 |  |       |      |  |  | 2.137 | (15/2-)         | 41 |
| 115IN 42 |  |       |      |  |  | 2.171 | (5/2+)          | 42 |
| 115IN 43 |  | 2.208 | 1/2+ |  |  |       |                 | 43 |
| 115IN 44 |  |       |      |  |  | 2.230 | 5/2-,7/2-       | 44 |
| 115IN 45 |  |       |      |  |  | 2.234 | (5/2+)          | 45 |
| 115IN 46 |  |       |      |  |  | 2.254 | (17/2+)         | 46 |
| 115IN 47 |  |       |      |  |  | 2.264 | (7/2+)          | 47 |
| 115IN 48 |  |       |      |  |  | 2.283 | (17/2-)         | 48 |
| 115IN 49 |  |       |      |  |  | 2.283 | (7/2+,9/2+)     | 49 |
| 115IN 50 |  |       |      |  |  | 2.309 | (17/2+)         | 50 |
| -----    |  |       |      |  |  |       |                 |    |
| 115IN 51 |  |       |      |  |  | 2.318 |                 | 51 |
| 115IN 52 |  |       |      |  |  | 2.385 | 7/2-,9/2-,11/2- | 52 |
| 115IN 53 |  |       |      |  |  | 2.434 | (15/2)-         | 53 |
| 115IN 54 |  |       |      |  |  | 2.443 | 7/2,9/2,11/2-   | 54 |
| 115IN 55 |  |       |      |  |  | 2.450 | 1/2-,3/2-       | 55 |
| 115IN 56 |  |       |      |  |  | 2.451 | (13/2)-         | 56 |
| 115IN 57 |  |       |      |  |  | 2.480 | 7/2-,9/2-,11/2- | 57 |
| 115IN 58 |  |       |      |  |  | 2.489 | 5/2-,7/2-       | 58 |
| 115IN 59 |  |       |      |  |  | 2.539 | (19/2-)         | 59 |
| 115IN 60 |  |       |      |  |  | 2.541 | 7/2-,9/2-,11/2- | 60 |
| -----    |  |       |      |  |  |       |                 |    |
| 115IN 61 |  |       |      |  |  | 2.580 |                 | 61 |
| 115IN 62 |  |       |      |  |  | 2.646 |                 | 62 |
| 115IN 63 |  |       |      |  |  | 2.740 |                 | 63 |
| 115IN 64 |  |       |      |  |  | 2.747 |                 | 64 |
| 115IN 65 |  | 2.815 | 1/2+ |  |  |       |                 | 65 |
| 115IN 66 |  |       |      |  |  | 2.828 |                 | 66 |
| 115IN 67 |  |       |      |  |  | 2.831 | (21/2-)         | 67 |
| 115IN 68 |  |       |      |  |  | 2.852 |                 | 68 |
| 115IN 69 |  |       |      |  |  | 2.860 | 1/2-,3/2-       | 69 |
| 115IN 70 |  |       |      |  |  | 2.878 | (21/2+)         | 70 |
| -----    |  |       |      |  |  |       |                 |    |
| 115IN 71 |  |       |      |  |  | 2.897 |                 | 71 |
| 115IN 72 |  |       |      |  |  | 2.947 | (19/2+)         | 72 |
| 115IN 73 |  |       |      |  |  | 2.960 | (23/2+)         | 73 |
| 115IN 74 |  |       |      |  |  | 2.994 |                 | 74 |
| 115IN 75 |  |       |      |  |  | 3.037 | (23/2-)         | 75 |
| 115IN 76 |  |       |      |  |  | 3.043 |                 | 76 |
| 115IN 77 |  |       |      |  |  | 3.096 | (25/2+)         | 77 |
| 115IN 78 |  |       |      |  |  | 3.110 | 3/2+,5/2+       | 78 |
| 115IN 79 |  |       |      |  |  | 3.158 |                 | 79 |
| 115IN 80 |  |       |      |  |  | 3.183 | (25/2-)         | 80 |
| -----    |  |       |      |  |  |       |                 |    |
| 115IN 81 |  |       |      |  |  | 3.221 |                 | 81 |
| 115IN 82 |  |       |      |  |  | 3.231 |                 | 82 |

|           |       |          |          |       |         |    |
|-----------|-------|----------|----------|-------|---------|----|
| 115IN 83  |       |          |          | 3.272 |         | 83 |
| 115IN 84  |       |          |          | 3.289 |         | 84 |
| 115IN 85  |       |          |          | 3.387 |         | 85 |
| 115IN 86  |       |          |          | 3.395 |         | 86 |
| 115IN 87  |       |          |          | 3.472 | (27/2+) | 87 |
| 115IN 88  |       |          |          | 3.685 |         | 88 |
| 115IN 89  |       |          |          | 3.701 |         | 89 |
| -----     |       |          |          |       |         |    |
| S-alpha=  | 3.746 | ( 0.001) |          |       |         |    |
| 115IN 90  |       |          |          | 3.848 | (27/2-) | 90 |
| -----     |       |          |          |       |         |    |
| 115IN 91  |       |          |          | 4.041 | (29/2+) | 91 |
| 115IN 92  |       |          |          | 4.583 | (29/2-) | 92 |
|           |       |          |          |       |         |    |
| S-p       | =     | 6.810    | ( 0.000) | ----- |         |    |
| S-n       | =     | 9.038    | ( 0.000) | ----- |         |    |
| S-2p      | =     | 17.087   | ( 0.017) | ----- |         |    |
| S-2n      | =     | 16.312   | ( 0.000) | ----- |         |    |
| S-alpha=  | 3.746 | ( 0.001) |          | ----- |         |    |
|           |       |          |          |       |         |    |
| S+p       | =     | -9.279   | ( 0.000) |       |         |    |
| S+n       | =     | -6.785   | ( 0.000) |       |         |    |
| S+2p      | =     | -13.681  | ( 0.008) |       |         |    |
| S+2n      | =     | -15.549  | ( 0.005) |       |         |    |
| S+alpha   | =     | -2.364   | ( 0.007) |       |         |    |
|           |       |          |          |       |         |    |
| gap p     | =     | -2.468   | ( 0.000) |       |         |    |
| gap n     | =     | 2.253    | ( 0.000) |       |         |    |
| gap 2p    | =     | 3.406    | ( 0.019) |       |         |    |
| gap 2n    | =     | 0.762    | ( 0.005) |       |         |    |
| gap alpha | =     | 1.382    | ( 0.007) |       |         |    |