

^{232}Th $Z = 90$ $N = 142$ adopted link ENSDF link

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

BE = 1766.688 (0.001) MeV

| | Energy T | J+ | | J- | | J-other | | T1/2 |
|----------|----------|----------|-------|----|-------|---------|--|---------------|
| ----- | | | | | | | | |
| S-alpha= | -4.082 | (0.002) | ----- | | | | | |
| 232TH 1 | 0.000 | 0+ | | | | | | 1 1.40E10 Y 1 |
| 232TH 2 | 0.049 | 2+ | | | | | | 2 345 PS 15 |
| 232TH 3 | 0.162 | 4+ | | | | | | 3 164 PS 13 |
| 232TH 4 | 0.333 | 6+ | | | | | | 4 62 PS 4 |
| 232TH 5 | 0.557 | 8+ | | | | | | 5 24 PS 1 |
| 232TH 6 | | | 0.714 | 1- | | | | 6 |
| 232TH 7 | 0.731 | 0+ | | | | | | 7 |
| 232TH 8 | 0.774 | 2+ | | | | | | 8 6 PS 2 |
| 232TH 9 | | | 0.774 | 3- | | | | 9 |
| 232TH 10 | 0.785 | 2+ | | | | | | 10 2.3 PS 3 |
| ----- | | | | | | | | |
| 232TH 11 | 0.827 | 10+ | | | | | | 11 10.3 PS 6 |
| 232TH 12 | | | | | 0.830 | (3+) | | 12 |
| 232TH 13 | 0.873 | 4+ | | | | | | 13 |
| 232TH 14 | | | 0.884 | 5- | | | | 14 |
| 232TH 15 | 0.890 | 4+ | | | | | | 15 |
| 232TH 16 | | | | | 0.960 | (5+) | | 16 |
| 232TH 17 | 1.023 | 6+ | | | | | | 17 |
| 232TH 18 | | | 1.043 | 7- | | | | 18 |
| 232TH 19 | 1.051 | 6+ | | | | | | 19 |
| 232TH 20 | | | | | 1.054 | (2+) | | 20 |
| ----- | | | | | | | | |
| 232TH 21 | | | | | 1.072 | (2+) | | 21 |
| 232TH 22 | | | | | 1.078 | (1-) | | 22 |
| 232TH 23 | | | | | 1.079 | (0+) | | 23 |
| 232TH 24 | | | | | 1.094 | (2)+ | | 24 |
| 232TH 25 | | | 1.106 | 3- | | | | 25 |
| 232TH 26 | 1.122 | 2+ | | | | | | 26 |
| 232TH 27 | 1.137 | 12+ | | | | | | 27 5.5 PS 4 |
| 232TH 28 | | | | | 1.143 | (4-) | | 28 |
| 232TH 29 | | | | | 1.146 | (7+) | | 29 |
| 232TH 30 | | | | | 1.148 | (4+) | | 30 |
| ----- | | | | | | | | |
| 232TH 31 | | | 1.183 | 3- | | | | 31 |
| 232TH 32 | | | | | 1.209 | (5-) | | 32 |
| 232TH 33 | | | | | 1.218 | | | 33 |
| 232TH 34 | | | | | 1.222 | (8+) | | 34 |
| 232TH 35 | | | 1.250 | 9- | | | | 35 |
| 232TH 36 | | | | | 1.259 | (8+) | | 36 |
| 232TH 37 | | | | | 1.293 | (5-) | | 37 |

| | | | | | | | | | | |
|-------|----|-------|-----|-------|-----|-------|--------|--|--|--------------|
| 232TH | 38 | | | | | 1.303 | | | | 38 |
| 232TH | 39 | 1.322 | 2+ | | | | | | | 39 |
| 232TH | 40 | 1.327 | 2+ | | | | | | | 40 |
| ----- | | | | | | | | | | |
| 232TH | 41 | | | | | 1.352 | | | | 41 |
| 232TH | 42 | | | | | 1.370 | (9+) | | | 42 |
| 232TH | 43 | 1.387 | 2+ | | | | | | | 43 0.4 PS 1 |
| 232TH | 44 | 1.414 | 4+ | | | | | | | 44 2.2 PS 5 |
| 232TH | 45 | | | | | 1.419 | | | | 45 |
| 232TH | 46 | | | | | 1.450 | | | | 46 |
| 232TH | 47 | 1.466 | 4+ | | | | | | | 47 |
| 232TH | 48 | | | | | 1.469 | (10+) | | | 48 |
| 232TH | 49 | 1.477 | 2+ | | | | | | | 49 |
| 232TH | 50 | | | | | 1.480 | | | | 50 |
| ----- | | | | | | | | | | |
| 232TH | 51 | 1.482 | 14+ | | | | | | | 51 3.1 PS 2 |
| 232TH | 52 | | | | | 1.485 | (5+) | | | 52 |
| 232TH | 53 | | | | | 1.489 | (1,2+) | | | 53 |
| 232TH | 54 | | | | | 1.490 | (5+) | | | 54 |
| 232TH | 55 | | | 1.499 | 11- | | | | | 55 |
| 232TH | 56 | | | | | 1.512 | (10+) | | | 56 |
| 232TH | 57 | | | | | 1.520 | | | | 57 |
| 232TH | 58 | 1.554 | 2+ | | | | | | | 58 110 FS 10 |
| 232TH | 59 | | | | | 1.561 | (1,2+) | | | 59 |
| 232TH | 60 | | | | | 1.573 | (1,2+) | | | 60 |
| ----- | | | | | | | | | | |
| 232TH | 61 | | | | | 1.574 | (6+) | | | 61 |
| 232TH | 62 | | | | | 1.579 | (2+) | | | 62 |
| 232TH | 63 | | | | | 1.609 | | | | 63 |
| 232TH | 64 | | | | | 1.618 | | | | 64 |
| 232TH | 65 | | | | | 1.640 | (11+) | | | 65 |
| 232TH | 66 | | | | | 1.648 | | | | 66 |
| 232TH | 67 | | | | | 1.691 | | | | 67 |
| 232TH | 68 | | | | | 1.728 | | | | 68 |
| 232TH | 69 | | | | | 1.738 | (1,2+) | | | 69 |
| 232TH | 70 | | | | | 1.755 | (12+) | | | 70 |
| ----- | | | | | | | | | | |
| 232TH | 71 | | | | | 1.783 | (8)+ | | | 71 |
| 232TH | 72 | | | 1.785 | 13- | | | | | 72 |
| 232TH | 73 | | | | | 1.791 | | | | 73 |
| 232TH | 74 | | | | | 1.801 | (12+) | | | 74 |
| 232TH | 75 | 1.859 | 16+ | | | | | | | 75 2.3 PS 2 |
| 232TH | 76 | 2.043 | 1+ | | | | | | | 76 6.1 FS 4 |
| 232TH | 77 | | | | | 2.080 | (14+) | | | 77 |
| 232TH | 78 | | | 2.102 | 15- | | | | | 78 |
| 232TH | 79 | | | | | 2.117 | (14+) | | | 79 |
| 232TH | 80 | 2.248 | 1+ | | | | | | | 80 13 FS 2 |
| ----- | | | | | | | | | | |
| 232TH | 81 | 2.262 | 18+ | | | | | | | 81 1.4 PS 2 |
| 232TH | 82 | 2.274 | 1+ | | | | | | | 82 25 FS 6 |

