

^{187}Re $Z = 75$ $N = 112$ adopted link ENSDF link

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

BE = 1491.877 (0.001) MeV

Qbeta- = 0.003 (0.001) MeV

| | Energy T | J+ | | J- | | J-other | | T1/2 |
|----------|----------|----------|-------|------|--|---------|-----------------|----------------|
| ----- | | | | | | | | |
| S-alpha= | -1.652 | (0.002) | ----- | | | | | |
| 187RE 1 | 0.000 | 5/2+ | | | | | | 1 4.33E+10 Y 7 |
| 187RE 2 | 0.134 | 7/2+ | | | | | | 2 10.6 PS 7 |
| 187RE 3 | | | 0.206 | 9/2- | | | | 3 555.3 NS 17 |
| 187RE 4 | 0.303 | 9/2+ | | | | | | 4 5.2 PS 18 |
| 187RE 5 | | | | | | 0.389 | (11/2-) | 5 |
| 187RE 6 | | | | | | 0.509 | (11/2+) | 6 |
| 187RE 7 | 0.512 | 1/2+ | | | | | | 7 13 PS 3 |
| 187RE 8 | | | | | | 0.582 | (5/2+) | 8 |
| 187RE 9 | 0.589 | 3/2+ | | | | | | 9 1.4 PS GT |
| 187RE 10 | | | | | | 0.603 | (13/2-) | 10 |
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| 187RE 11 | | | | | | 0.618 | (3/2+) | 11 9.7 PS 8 |
| 187RE 12 | | | | | | 0.626 | (1/2+) | 12 540 PS 11 |
| 187RE 13 | 0.647 | 5/2+ | | | | | | 13 |
| 187RE 14 | | | 0.686 | 5/2- | | | | 14 6.1 PS 3 |
| 187RE 15 | | | | | | 0.719 | | 15 |
| 187RE 16 | | | | | | 0.745 | (13/2+) | 16 |
| 187RE 17 | | | | | | 0.768 | (7/2+) | 17 |
| 187RE 18 | | | | | | 0.773 | (3/2+) | 18 0.17 PS 2 |
| 187RE 19 | | | | | | 0.793 | (13/2) | 19 |
| 187RE 20 | | | | | | 0.817 | (5/2+) | 20 |
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| 187RE 21 | | | | | | 0.817 | (7/2+) | 21 |
| 187RE 22 | | | | | | 0.827 | (3/2+,5/2+) | 22 |
| 187RE 23 | | | | | | 0.840 | (15/2-) | 23 |
| 187RE 24 | | | | | | 0.842 | (7/2-,9/2+) | 24 |
| 187RE 25 | | | | | | 0.845 | (9/2+) | 25 54 FS 34 |
| 187RE 26 | 0.865 | 3/2+ | | | | | | 26 1.5 PS 5 |
| 187RE 27 | | | | | | 0.879 | (5/2+) | 27 0.27 PS 9 |
| 187RE 28 | | | | | | 0.934 | (5/2-,7/2+) | 28 |
| 187RE 29 | | | | | | 0.948 | (1/2+) | 29 |
| 187RE 30 | | | | | | 0.960 | (5/2+) | 30 |
| ----- | | | | | | | | |
| 187RE 31 | | | | | | 0.969 | (3/2+,5/2,7/2+) | 31 |
| 187RE 32 | | | | | | 0.979 | (5/2+) | 32 |
| 187RE 33 | | | | | | 1.001 | (5/2-,7/2+) | 33 |
| 187RE 34 | | | | | | 1.003 | | 34 |
| 187RE 35 | | | | | | 1.015 | (15/2+) | 35 |
| 187RE 36 | | | | | | 1.034 | (9/2-,11/2+) | 36 |

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| 187RE 37 | | | | 1.043 | (15/2) | 37 | | |
| 187RE 38 | | | | 1.079 | 1/2,3/2 | 38 | | |
| 187RE 39 | | | | 1.107 | (17/2-) | 39 | | |
| 187RE 40 | | | | 1.126 | 3/2+,5/2+ | 40 | | |
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| 187RE 41 | | | | 1.163 | 3/2+,5/2+ | 41 | | |
| 187RE 42 | | | | 1.190 | (5/2+) | 42 | | |
| 187RE 43 | | | | 1.200 | (9/2-) | 43 | | |
| 187RE 44 | | | | 1.209 | (11/2-) | 44 | | |
| 187RE 45 | | | | 1.221 | | 45 | | |
| 187RE 46 | | | | 1.230 | (3/2+,5/2+) | 46 | | |
| 187RE 47 | | | | 1.232 | (5/2-) | 47 | | |
| 187RE 48 | | | | 1.257 | (11/2-,13/2+) | 48 | | |
| 187RE 49 | | | | 1.266 | | 49 | | |
| 187RE 50 | | | | 1.286 | | 50 | | |
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| 187RE 51 | | | | 1.310 | (17/2+) | 51 | | |
| 187RE 52 | | | | 1.319 | (17/2) | 52 | | |
| 187RE 53 | | | | 1.343 | | 53 | | |
| 187RE 54 | | | | 1.384 | (19/2-) | 54 | | |
| 187RE 55 | | | | 1.423 | | 55 | | |
| 187RE 56 | | | | 1.458 | | 56 | | |
| 187RE 57 | | | | 1.474 | (19/2-) | 57 | 3 NS | LT |
| 187RE 58 | | | | 1.487 | (5/2+) | 58 | | |
| 187RE 59 | | | | 1.506 | 3/2,5/2,7/2 | 59 | | |
| 187RE 60 | | | | 1.511 | (13/2-,15/2+) | 60 | | |
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| 187RE 61 | | | | 1.546 | | 61 | | |
| 187RE 62 | | | | 1.608 | | 62 | | |
| 187RE 63 | | | | 1.639 | (19/2+) | 63 | | |
| 187RE 64 | | | | 1.640 | | 64 | | |
| 187RE 65 | | | | 1.650 | | 65 | | |
| 187RE 66 | | | | 1.661 | (3/2+) | 66 | | |
| 187RE 67 | | | | 1.674 | (21/2-) | 67 | | |
| 187RE 68 | | | | 1.682 | (19/2+) | 68 | 114 NS | 23 |
| 187RE 69 | | | | 1.683 | | 69 | | |
| 187RE 70 | | | | 1.713 | | 70 | | |
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| 187RE 71 | | | | 1.736 | | 71 | | |
| 187RE 72 | | | | 1.789 | (3/2+,5/2+) | 72 | | |
| 187RE 73 | | | | 1.790 | (11/2-) | 73 | | |
| 187RE 74 | | | | 1.808 | | 74 | | |
| 187RE 75 | | | | 1.836 | | 75 | | |
| 187RE 76 | | | | 1.871 | | 76 | | |
| 187RE 77 | | | | 1.876 | (3/2+,5/2+) | 77 | | |
| 187RE 78 | | | | 1.905 | (3/2+,5/2+) | 78 | | |
| 187RE 79 | | | | 1.922 | (3/2+,5/2+) | 79 | | |
| 187RE 80 | | | | 1.948 | (1/2+) | 80 | | |
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| 187RE 81 | | | | 1.963 | (3/2+,5/2+) | 81 | | |

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| 187RE | 82 | | | | 1.982 | (21/2+) | 82 |
| 187RE | 83 | | | | 1.990 | (3/2+,5/2+) | 83 |
| 187RE | 84 | | | | 2.109 | | 84 |
| 187RE | 85 | | | | 2.200 | | 85 |

S-p = 5.997 (0.001)-----
S-n = 7.360 (0.001)-----
S-2p = 14.400 (0.014)-----
S-2n = 13.540 (0.001)-----
S-alpha= -1.652 (0.002)-----

S+p = -7.210 (0.001)
S+n = -5.872 (0.001)
S+2p = -11.811 (0.013)
S+2n = -12.905 (0.008)
S+alpha = 2.083 (0.002)

gap p = -1.213 (0.002)
gap n = 1.489 (0.002)
gap 2p = 2.589 (0.019)
gap 2n = 0.635 (0.008)
gap alpha = 0.431 (0.002)