

^{166}W $Z = 74$ $N = 92$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1323.833 (0.009) MeV

Qbeta+ = 4.210 (0.029) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|------------|----------|-------|---------|------------|
| ----- | | | | | |
| S-alpha= | -4.856 | (0.013) | ----- | | |
| ----- | | | | | |
| 166W | 1 0.000 | 0+ | | | 1 19.2 S 6 |
| 166W | 2 0.252 | 2+ | | | 2 |
| 166W | 3 0.676 | 4+ | | | 3 |
| 166W | 4 1.226 | 6+ | | | 4 |
| 166W | 5 | | 1.587 | (5-) | 5 |
| 166W | 6 1.865 | 8+ | | | 6 |
| 166W | 7 | | 1.929 | (7-) | 7 |
| 166W | 8 | | 2.020 | (6-) | 8 |
| 166W | 9 | | 2.337 | (9-) | 9 |
| 166W | 10 | | 2.349 | (8-) | 10 |
| ----- | | | | | |
| 166W | 11 2.552 | 10+ | | | 11 |
| 166W | 12 | | 2.573 | (10-) | 12 |
| 166W | 13 | | 2.743 | (11-) | 13 |
| 166W | 14 | | 2.947 | (12-) | 14 |
| 166W | 15 3.031 | (12+) | | | 15 |
| 166W | 16 | | 3.173 | (13-) | 16 |
| ----- | | | | | |
| S-p | = 3.329 | (0.017) | ----- | | |
| ----- | | | | | |
| 166W | 17 3.356 | (14+) | | | 17 |
| 166W | 18 | | 3.474 | (14-) | 18 |
| 166W | 19 | | 3.722 | (15-) | 19 |
| 166W | 20 3.821 | (16+) | | | 20 |
| ----- | | | | | |
| 166W | 21 | | 4.127 | (16-) | 21 |
| 166W | 22 | | 4.378 | (17-) | 22 |
| 166W | 23 4.388 | (18+) | | | 23 |
| ----- | | | | | |
| S-2p | = 4.647 | (0.018) | ----- | | |
| ----- | | | | | |
| 166W | 24 | | 4.871 | (18-) | 24 |
| 166W | 25 5.027 | (20+) | | | 25 |
| 166W | 26 | | 5.114 | (19-) | 26 |
| 166W | 27 | | 5.580 | (20-) | 27 |
| 166W | 28 5.729 | (22+) | | | 28 |
| 166W | 29 | | 5.854 | (21-) | 29 |
| 166W | 30 | | 6.169 | (22-) | 30 |
| ----- | | | | | |
| 166W | 31 6.492 | (24+) | | | 31 |
| 166W | 32 | | 6.496 | (23-) | 32 |
| 166W | 33 | | 6.811 | (24-) | 33 |

| | | | | | | | | |
|-------|----|--|--------|-------|-------|-------|--|----|
| 166W | 34 | | | | 7.170 | (25-) | | 34 |
| 166W | 35 | | 7.313 | (26+) | | | | 35 |
| 166W | 36 | | | | 7.520 | (26-) | | 36 |
| 166W | 37 | | | | 7.917 | (27-) | | 37 |
| 166W | 38 | | 8.184 | (28+) | | | | 38 |
| 166W | 39 | | | | 8.290 | (28-) | | 39 |
| 166W | 40 | | | | 8.725 | (29-) | | 40 |
| ----- | | | | | | | | |
| 166W | 41 | | 9.107 | (30+) | | | | 41 |
| 166W | 42 | | 10.076 | (32+) | | | | 42 |

S-p = 3.329 (0.017) -----
 S-n = 11.098 (0.027) -----
 S-2p = 4.647 (0.018) -----
 S-2n = 19.795 (0.014) -----
 S-alpha = -4.856 (0.013) -----

S+p = -0.310 (0.009)
 S+n = -8.277 (0.021)
 S+2p = -2.685 (0.014)
 S+2n = -19.148 (0.016)
 S+alpha = 5.537 (0.014)

gap p = 3.018 (0.019)
 gap n = 2.821 (0.035)
 gap 2p = 1.962 (0.023)
 gap 2n = 0.647 (0.021)
 gap alpha = 0.681 (0.019)