

^{61}Fe $Z = 26$ $N = 35$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 530.930 (0.003) MeV

Qbeta- = 3.978 (0.003) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|---------|----------|----|----|----------------------|------------|
| 61FE 1 | | | | 0.000 (3/2-) | 1 5.98 M 6 |
| 61FE 2 | | | | 0.207 (5/2-) | 2 |
| 61FE 3 | | | | 0.391 (1/2-) | 3 |
| 61FE 4 | | | | 0.629 (3/2-) | 4 |
| 61FE 5 | | | | 0.862 (9/2+) | 5 238 NS 5 |
| 61FE 6 | | | | 0.960 (7/2-) | 6 |
| 61FE 7 | | | | 1.013 (1/2-) | 7 |
| 61FE 8 | | | | 1.161 (5/2-) | 8 |
| 61FE 9 | | | | 1.253 (3/2-) | 9 |
| 61FE 10 | | | | 1.262 (3/2,5/2,7/2-) | 10 |
| ----- | | | | | |
| 61FE 11 | | | | 1.477 (9/2-) | 11 |
| 61FE 12 | | | | 1.650 (13/2+) | 12 |
| 61FE 13 | | | | 1.705 (1/2-,9/2-) | 13 |
| 61FE 14 | | | | 1.893 (3/2,5/2-) | 14 |
| 61FE 15 | | | | 1.929 (3/2,5/2-) | 15 |
| 61FE 16 | | | | 2.144 (3/2-,5/2-) | 16 |
| 61FE 17 | | | | 2.511 (3/2-,5/2-) | 17 |
| 61FE 18 | | | | 2.717 (5/2-,7/2) | 18 |
| 61FE 19 | | | | 2.964 (3/2,5/2,7/2) | 19 |
| 61FE 20 | | | | 2.992 (17/2+) | 20 |
| ----- | | | | | |
| 61FE 21 | | | | 3.049 (5/2-,7/2) | 21 |
| 61FE 22 | | | | 3.080 (3/2,5/2,7/2-) | 22 |
| 61FE 23 | | | | 3.513 (3/2,5/2-) | 23 |
| 61FE 24 | | | | 3.529 (17/2+,15/2+) | 24 |
| 61FE 25 | | | | 3.541 | 25 |
| 61FE 26 | | | | 3.714 | 26 |
| 61FE 27 | | | | 4.144 (19/2+) | 27 |
| 61FE 28 | | | | 4.292 (19/2+,17/2+) | 28 |
| 61FE 29 | | | | 4.675 (21/2+) | 29 |

S-p = 13.242 (0.004)-----

S-n = 5.579 (0.004)-----

S-2p = 25.413 (0.216)-----

S-2n = 14.398 (0.003)-----

S-alpha= 8.821 (0.003)-----

S+p = -9.793 (0.019)

S+n = -8.029 (0.004)
S+2p = -21.170 (0.003)
S+2n = -12.858 (0.005)
S+alpha = -8.630 (0.003)

gap p = 3.449 (0.019)
gap n = -2.450 (0.006)
gap 2p = 4.242 (0.216)
gap 2n = 1.541 (0.006)
gap alpha = 0.191 (0.004)