

^{237}Pa $Z = 91$ $N = 146$ adopted link ENSDF link

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

BE = 1794.181 (0.013) MeV

Qbeta- = 2.137 (0.013) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|----------|----------|-------|---------------|-----------|
| ----- | | | | | |
| S-alpha= | -3.795 | (0.018) | ----- | | |
| 237PA 1 | | | | 0.000 (1/2+) | 1 8.7 M 2 |
| 237PA 2 | | | | 0.035 (3/2+) | 2 |
| 237PA 3 | | | | 0.090 (3/2-) | 3 |
| 237PA 4 | | | | 0.105 (9/2+) | 4 |
| 237PA 5 | | | | 0.147 (7/2-) | 5 |
| 237PA 6 | | | | 0.158 (13/2+) | 6 |
| 237PA 7 | | | | 0.202 | 7 |
| 237PA 8 | | | | 0.258 | 8 |
| 237PA 9 | | | | 0.319 | 9 |
| 237PA 10 | | | | 0.364 (3/2+) | 10 |
| ----- | | | | | |
| 237PA 11 | | | | 0.393 (5/2+) | 11 |
| 237PA 12 | | | | 0.491 | 12 |
| 237PA 13 | | | | 0.554 | 13 |
| 237PA 14 | | | | 0.577 | 14 |
| 237PA 15 | | | | 0.624 | 15 |
| 237PA 16 | | | | 0.686 | 16 |
| 237PA 17 | | | | 0.714 | 17 |
| 237PA 18 | | | | 0.741 | 18 |
| 237PA 19 | | | | 0.972 | 19 |
| 237PA 20 | | | | 1.025 | 20 |
| ----- | | | | | |
| 237PA 21 | | | | 1.112 | 21 |

S-p = 6.017 (0.019)-----

S-n = 5.878 (0.019)-----

S-2p = 14.408 (0.019)-----

S-2n = 10.904 (0.019)-----

S-alpha= -3.795 (0.018)-----

S+p = -7.509 (0.013)

S+n = -4.705 (0.021)

S+2p = -12.794 (0.013)

S+2n = -10.269 (0.239)

S+alpha = 4.363 (0.101)

gap p = -1.492 (0.023)

gap n = 1.173 (0.028)

gap 2p = 1.613 (0.023)
gap 2n = 0.635 (0.240)
gap alpha = 0.568 (0.103)