

^{228}Fr $Z = 87$ $N = 141$ adopted link ENSDF link

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

BE = 1738.812 (0.007) MeV

Qbeta- = 4.444 (0.007) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|-----------|-----------------|------------------|-------|---------|----------------|
| ----- | | | | | |
| S-alpha= | -3.248 (0.023) | | | | |
| 228FR | 1 | | 0.000 | 2- | 1 38 S 1 |
| ----- | | | | | |
| S-p | = | 6.791 (0.016) | | | |
| S-n | = | 4.370 (0.009) | | | |
| S-2p | = | 15.788 (0.226) | | | |
| S-2n | = | 10.279 (0.009) | | | |
| S-alpha= | = | -3.248 (0.023) | | | |
| ----- | | | | | |
| S+p | = | -8.111 (0.017) | | | |
| S+n | = | -5.787 (0.008) | | | |
| S+2p | = | -14.124 (0.017) | | | |
| S+2n | = | -10.040 (0.009) | | | |
| S+alpha | = | 3.345 (0.015) | | | |
| ----- | | | | | |
| gap p | = | -1.321 (0.023) | | | |
| gap n | = | -1.418 (0.012) | | | |
| gap 2p | = | 1.664 (0.227) | | | |
| gap 2n | = | 0.239 (0.013) | | | |
| gap alpha | = | 0.097 (0.028) | | | |