

^{119}Ba $Z = 56$ $N = 63$ adopted link ENSDF link

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

BE = 981.266 (0.200) MeV

Qbeta+ = 7.715 (0.201) MeV

| | Energy T | J+ | J- | J-other | T1/2 |
|----------|-----------------|----|----|--------------|-----------|
| S-alpha= | -1.642 (0.201) | | | | |
| 119BA 1 | | | | 0.000 (5/2+) | 1 5.4 S 3 |

S-p = 3.470 (0.201)-----
 S-n = 10.479 (0.310)-----
 S-2p = 4.983 (0.201)-----
 S-2n = 23.275 (0.321)-----
 S-alpha= -1.642 (0.201)-----

S+p = -0.214 (0.313)
 S+n = -12.370 (0.361)
 S+2p = -2.706 (0.415)
 S+2n = -22.297 (0.245)
 S+alpha = 1.822 (0.317)

gap p = 3.255 (0.371)
 gap n = -1.890 (0.475)
 gap 2p = 2.276 (0.461)
 gap 2n = 0.977 (0.404)
 gap alpha = 0.180 (0.375)