Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Ota and E. A. Mccutchan	NDS 203,1 (2025)	1-Apr-2025

Q(β^-)=16781 *syst*; S(n)=1511 *syst*; S(p)=22929 *syst*; Q(α)=−19554 *syst* 2021Wa16
ΔQ(β^-)=447, ΔS(n)=565, ΔS(p)=640, ΔQ(α)=565 (2021Wa16).
S(2n)=5602 (syst) *500*, S(2p)=44468 (syst) *721*, Q(β^-n)=12864 (syst) *411* (2021Wa16).
1988GuZV, 1989Gu03: ^{181}Ta(^{48}Ca,X) with E=2.64 GeV. Observed projectile-like fragments at 0° using magnetic spectrograph coupled with a ΔE-E Si-Si(Li) telescope. Z identified using the telescope and A by total energy, tof, and magnetic rigidity.
2018Ta17: ^{47}P formed in fragmentation of ^{70}Zn^{30+} beam at 345 MeV/nucleon from RIKEN-RIBF accelerator complex incident on ^{9}Be target located at the BigRIPS two-stage ion separator. Particle identification from measurements of time of flight (tof), energy loss (ΔE), total kinetic energy (TKE), and magnetic rigidity (Bρ). Fragments were stopped in a 76-mm thick CsI crystal after passing through six 1-mm thick silicon p-i-n diodes, while the magnetic rigidity (Bρ) of the fragments was reconstructed from position and angle measurements at foci using two sets of position-sensitive parallel plate avalanche counters (PPACs).

^{47}S Levels

E(level)	Comments
0.0	%β^-=100; %β^-n=? E(level): observed events assumed to correspond to g.s. theoretical calculations give J^π=1/2$^-$, $T_{1/2}$=23.2 ms, %β^-=100%, and %β^-n=57 (2019Mo01).