Adopted Levels:unobserved

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	ENSDF	1-May-2022

S(p)=−1580 *SY*; Q(α)=3940 *SY* 2021Wa16
ΔS(p)=380; ΔQ(α)=300 (2021Wa16).
Experimental search:
2001Ma69: ^{64}Zn(^{58}Ni,p5n) E=325 MeV, recoil mass separator (FMA) with PPAC/DDSD detectors at focal plane. Proton radioactivity was not observed; deduced σ<5 nb for 20 μs<$T_{1/2}$<20 ms.
Non observation could be explained by.
i) proton decay with σ(p5n) below 5 nb.
ii) Q(p) too large that will render $T_{1/2}$<1 μs.
iii) Q(p) too small, and thus β decay will be the dominant decay mode.
Theoretical works:
2020So24: S(p)=−1.09 MeV, $T_{1/2}$(p)=6 μs.
2019Mo01: S(p)=−0.80 MeV, $T_{1/2}(\beta)$=0.12 s.
2016Qi02: S(p)=−0.74 MeV, $T_{1/2}$(p)= 4 μs.
2001Go20: β_2=0.31, β_4=0.02, S(p)=−1.1 MeV.