
Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 179, 1 (2022)	30-Nov-2021

$Q(\beta^-)=18080$ SY; $S(n)=2770$ SY; $S(p)=18770$ SY; $Q(\alpha)=-17820$ SY [2021Wa16](#)

$\Delta Q(\beta^-)=500$, $\Delta S(n)=540$, $\Delta S(p)=\Delta Q(\alpha)=640$ (syst,[2021Wa16](#)).

$S(2n)=6690$ 510, $S(2p)=41700$ 710, $Q(\beta^-n)=13020$ 500 (syst,[2021Wa16](#)).

[1989Gu03](#): $^{181}\text{Ta}(^{48}\text{Ca},X)$, $E=2.64$ GeV. Observed projectile-like fragments ($29 \leq A \leq 51$) at 0° ; mag spect, ΔE -E telescope (Si,Si(Li)), tof. Z identified by telescope. Mass identified by total energy and tof and by magnetic rigidity and tof.

Theoretical calculations: [2018Yo06](#), [2012Ch48](#), [2010Af01](#),

 ^{48}Cl Levels

E(level)	Comments
0.0?	$^{\%}\beta^-$ =? $T_{1/2}$: ≥ 200 ns estimated from time of flight in 1988Gu03 . Other: 30 ms (2021Ko27 , syst). Theoretical $T_{1/2}=25.6$ ms (2019Mo01), 70.9 ms (2016Ma12). Theoretical $^{\%}\beta^-n=69$, $^{\%}\beta^-2n=14$ (2019Mo01). Theoretical $^{\%}\beta^-n=43$, $^{\%}\beta^-2n=6$ (2016Ma12).