^{40}Ar(γ,p) 1965Re08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 149, 1 (2018)	1-Jan-2018

1965Re08: E=17.71 MeV γ ray was produced via ^{7}Li(p,γ) at the 441-keV resonance with protons provided by the University of British Columbia 3-MeV Van de Graaff accelerator on metallic lithium. Target was argon gas. γ rays were detected by a NaI(Tl) crystal. Measured $\sigma(E_p)$. Deduced Q-value=12460 *100*.

1958Gu10: E=15 MeV. Measured $\sigma(\theta)$, possible group at 800 *200* with $J^{\pi}=1/2^{+}$.

1951Wi51: E=17.6 MeV. Measured Q-value, possible group at 1 MeV.

Additional information 1.

^{39}Cl Levels

σ=4.8 mb *10* for excited states above the E=500 level (1965Re08).

E(level)[†]	J$^{\pi}$	σ (mb)[†]	Comments
0	$3/2^{+}$	1.15 *20*	J$^{\pi}$: from Adopted Levels.
≈500	$1/2^{+}$	1.26 *20*	J$^{\pi}$: from Adopted Levels for E=396 level.

[†] From 1965Re08. Four peaks were observed and identified with proton transitions to the ground, first and higher excited states in ^{39}Cl.