40 K(γ,γ):Mossbauer 2000Se01,1965Ru02,1965Ha14

Type Author Citation Literature Cutoff Date

Full Evaluation Jun Chen NDS 140, 1 (2017)

30-Sep-2015

2000Se01, 2002Se12: Harmonic radiation was produced from the JAERI beam line (BL11XU) of the SPring-8. Target was KCl powder. Photons were detected with a Si avalanche photodiode (APD). Measured $E\gamma$, $\gamma(t)$. Deduced $T_{1/2}$.

1965Ru02: measured scattering At 90°.

1965Ha14: measured absorption; deduced isomer shift, linewidth.

Other: 1968Ts01.

⁴⁰K Levels

E(level) $J^{\pi^{\dagger}}$ $T_{1/2}$ Comments

0 4^{-} 29.834 11 3^{-} 4.13 ns 12 $T_{1/2}$: from 2000Se01 (also reported In 2002Se12). Other: 4.3 ns 9 (1965Ha14).

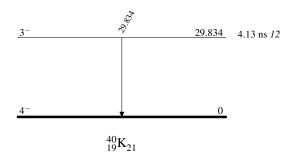
$$\gamma(^{40}K)$$

Comments

 $\frac{E_{\gamma}}{29.834 \ 11} \quad \frac{E_{i}(\text{level})}{29.834} \quad \frac{J_{i}^{\pi}}{3^{-}} \quad \frac{E_{f}}{0} \quad \frac{J_{f}^{\pi}}{4^{-}} \quad \frac{E_{\gamma}: \text{ from 2000Se01 and 2002Se12}. }$

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Level Scheme



[†] From Adopted Levels.