## $^{46}\mathrm{Ti}(\mathbf{p,}\gamma),(\mathbf{p,p}),(\mathbf{p,p'}),(\mathbf{p,p'}\gamma)$

Type Author Citation Literature Cutoff Date

Full Evaluation T. W. Burrows NDS 108, 923 (2007)

Literature Cutoff Date
20-Feb-2007

- 1961Du03: E=800-1400 keV. Measured excitation functions; NaI. Observed 30 resonances with an average level spacing of≈13 keV and notes that the natural half-widths of all resonances observed was less than 0.5 keV.
- 1969Ky01: E=2.5-2.9 MeV; overall energy resolution≈1700 eV. Measured  $\gamma(\theta)(889\gamma)$  and  $\gamma$ -ray excitation function for the first-excited,  $2^+$ , state; NaI. Observed 45 resonances; deduced  $J^{\pi}$  and resonance parameters.
- 1971Ka23: E=1350-2280 keV. Measured excitation functions; NaI. Observed 126 resonances in the excitation energy range of 6.5 to 7.4 MeV with an average level spacing of≈6 keV. Compared to resonances in  $^{48}$ Ti(p, $\gamma$ ). Identified eight prominent resonances as isobaric analogs of states in  $^{47}$ Ti.
- 1973Pr02: E=1.5-3.1 MeV; overall resolution≈300 eV. Measured  $\sigma(\theta)$  at four angles. Observed 144 resonances; deduced  $J^{\pi}$ , resonance parameters, and exit-channel L.
- 1979Ch20: E=2.25-3.10 MeV; overall resolution=350 eV. Measured  $\sigma(\theta)$ ,  $\gamma(\theta)$ ; surface barrier, NaI. Studied  $(p,p'\gamma)$  to the first-excited,  $2^+$ , state for 47 L=1 and five L=3 resonances between 2.25 and 3.10 MeV. Deduced  $J^{\pi}$  and resonance parameters.
- See 1977Ha45 for a compilation and comparison of the resonances observed by 1973Pr02, 1971Ka23, 1969Ky01, and 1961Du03. See also  $^{46}$ Ti(p, $\gamma$ ) E=0.72-4 MeV and E=0.4-1.8 MeV.