

$^{48}\text{Ca}(\text{e},\text{e}'\text{n}) \quad 2000\text{St24}$ 

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Ota and E. A. Mccutchan		NDS 203,1 (2025)	1-Apr-2025

**2000St24:** E=67.7 MeV ( $\theta(\text{e})=40.0^\circ$ ), 87.7 MeV ( $\theta(\text{e})=52.1^\circ$ ), 88.0 MeV ( $\theta(\text{e})=40.0^\circ$ ), and 103.4 MeV ( $\theta(\text{e})=52.1^\circ$ ). Measured  $\sigma(\theta(\text{e}'))$  using large solid-angle magnetic spectrometer,  $\sigma(\text{n})$  (six NE213 liquid scintillators).  $E_x \leq 25$  MeV; FWHM  $\approx 70$  keV. See also [1999St12](#), [2000Ri02](#), and [2001Vo09](#).

 $^{47}\text{Ca}$  Levels

Branching ratios are very similar for  $(\text{e},\text{e}'\text{n})$  and  $(\text{p},\text{p}'\text{n})$  with the exception of the decay to  $^{47}\text{Ca}$  g.s. which is stronger in  $(\text{p},\text{p}'\text{n})$  ([2000Ri09](#)).

E(level) <sup>†</sup>	J <sup>π</sup> <sup>†</sup>	Comments
0	7/2 <sup>-</sup>	
2014	3/2 <sup>-</sup>	
2850	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	
2875	(1/2 <sup>-</sup> ,3/2 <sup>-</sup> )	
12737	1/2 <sup>+</sup>	T=9/2 Populated in the decay of the $^{48}\text{Ca}$ 24.2 MeV IAR.

<sup>†</sup> From the Adopted Levels. Nominal energies are given.