

$^{48}\text{Ca}(e,e'n):\text{GMR,GDR,GQR,IAR}$ 2000St24

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

[2000St24](#): E=67.7 MeV ($\theta(e)=40.0^\circ$), 87.7 MeV ($\theta(e)=52.1^\circ$), 88.0 MeV ($\theta(e)=40.0^\circ$), and 103.4 MeV ($\theta(e)=52.1^\circ$), at S-DALINAC. Measured $\sigma(\theta(e'))$ with a large solid-angle magnetic spectrometer, $\sigma(n)$ with six NE213 liquid scintillators. $E_x \leq 25$ MeV; FWHM ≈ 70 keV. Deduced %EWSR (Energy-Weighted Sum Rule). See also [1999St12](#) and [2000Ri09](#).

 ^{48}Ca Levels

E(level)	J^π	Comments
24.2×10^3	1^-	%n=100 T=5 J^π, T : momentum transfer dependence favors an E1 excitation; small Γ implies an isobaric analog resonance. %EWSR(IVGDR)=81 12. %EWSR(ISGMR)=46 6. %EWSR(ISGQR)=46 6.