

${}^{40}\text{Ca}({}^{35}\text{Cl,p2n}\gamma)$ 1990De44

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 111,1 (2010)	1-May-2009

E=95 MeV, $\gamma\gamma$ coin.

The γ -ray energy from the 8^+ level was reported by 1990De44 to be 925.0 keV. This value was later on determined to be 995.5 keV. See (HI,xn γ), ${}^{40}\text{Ca}({}^{40}\text{Ca},2\alpha\gamma)$ and ${}^{40}\text{Ca}({}^{36}\text{Ar},2p2n\gamma)$ datasets for far more extensive datasets.

 ${}^{72}\text{Kr}$ Levels

E(level)	J^π
0	0^+
709.1 3	(2^+)
1321.6 5	(4^+)
2111.8 7	(6^+)

 $\gamma({}^{72}\text{Kr})$

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
612.5	60	1321.6	(4^+)	709.1	(2^+)
709.1	100	709.1	(2^+)	0	0^+
790.2	27	2111.8	(6^+)	1321.6	(4^+)

 ${}^{40}\text{Ca}({}^{35}\text{Cl,p2n}\gamma)$ 1990De44Level Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
- Coincidence

