

$^{40}\text{Ca}(\text{n},\alpha\gamma)$ 1972Di10

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	John Cameron, Jun Chen and Balraj Singh, Ninel Nica		NDS 113, 365 (2012)	15-Jan-2012

1972Di10: E=4.85 20, 5.40 15, 6.45 12, 7.00 12, 7.50 10, 8.05 10 MeV; used Ge(Li) detector and measured E_γ , and $d\sigma/d\Omega(125^\circ)$.

 ^{37}Ar Levels

E(level)	E(level)	E(level)	E(level)
0	2220	3171	3512
1409	2489	3190	3520
1610	2797	3272	

 $\gamma(^{37}\text{Ar})$

Given In comments are $d\sigma/d\Omega(125^\circ)$ (In mb/sr) for E=7.50 10 MeV.

E_γ	$d\sigma/d\Omega$	$E_i(\text{level})$	E_f	E_γ	$d\sigma/d\Omega$	$E_i(\text{level})$	E_f
879	0.20 7	2489	1610	2110	0.43 15	3520	1409
1409	1.98 22	1409	0	2220	1.0 3	2220	0
1580	0.37 15	3190	1610	2489	1.27 15	2489	0
1610	5.3 7	1610	0	2797	0.60 25	2797	0
1662	0.12 6	3272	1610	3171	0.19 9	3171	0
1904	0.10 6	3512	1610	3272	0.28 10	3272	0

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Level Scheme

Intensities: $\text{d}\sigma/\text{d}\Omega$

Legend

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

