^{40}Ca(π^-,pnγ) 1976En02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017

1976En02: π^- beam was produced from the CERN synchrocyclotron and stopped in a natural Ca target. γ rays were detected with a Ge(Li) detector. Measured Eγ, transition and isotopic yields. Deduced levels.

^{38}Ar Levels

E(level)[†]
0
2167 *1*
3810 *1*
3937 *1*
4481 *1*
4708 *1*

[†] From Eγ.

γ(^{38}Ar)

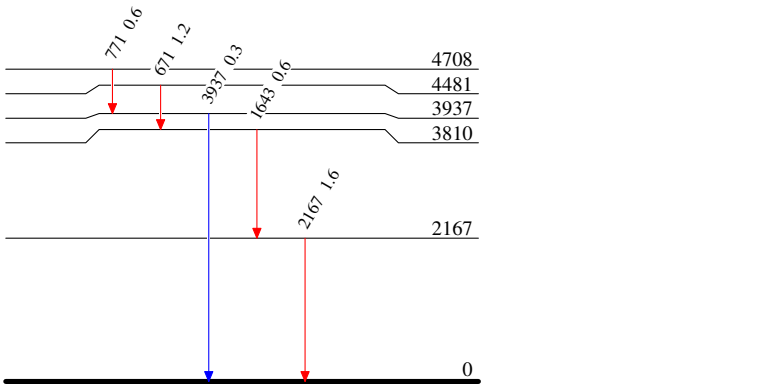
Eγ	Tansition yield[†]	E$_i$(level)	E$_f$
671 *1*	1.2 *2*	4481	3810
771 *1*	0.6 *2*	4708	3937
1643 *1*	0.6 *1*	3810	2167
2167 *1*	1.6 *2*	2167	0
3937 *1*	0.3 *1*	3937	0

[†] Yield per 100 π^- captures (1976En02).

^{40}Ca(π^-,pnγ) 1976En02

Level Scheme

Intensities: Yield per 100 π^- captures



$^{38}_{18}Ar_{20}$