^{208}Pb(^{37}Cl,Xγ) 1997Fo01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

1997Fo01 (also 1998Fo07): E=230 MeV ^{37}Cl beam was produced from the Legnaro superconducting linear accelerator ALPI. Target was 50 mg/cm^2 ^{208}Pb. γ rays were detected with the GASP array consisting of 40 Compton-suppressed Ge detectors and an 80-element bismuth germanate (BGO) array. Measured Eγ, $\gamma\gamma$-coin, isotopic yields. Deduced levels.

^{32}Al Levels

E(level)[†]	J$^\pi$[‡]
0	1$^+$
735.2 *3*	(2$^+$)
957.4 *4*	(4$^+$)
1178.8 *7*	(4$^-$)

† From Eγ data.
‡ From Adopted Levels.

γ(^{32}Al)

E$_\gamma$[†]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
221.4[‡] *5*	1178.8	(4$^-$)	957.4	(4$^+$)
222.2 *3*	957.4	(4$^+$)	735.2	(2$^+$)
735.2 *3*	735.2	(2$^+$)	0	1$^+$

† From 1997Fo01.
‡ Placement of transition in the level scheme is uncertain.

Legend

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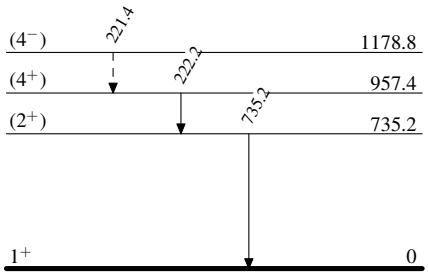
Level Scheme

γ Decay (Uncertain)



$^{32}_{13}Al_{19}$