^{160}Gd(^{34}S,xγ),(^{37}Cl,Xγ) 1994Fo04

1994Fo04: 159-MeV ^{34}S and 167-MeV ^{37}Cl beams were produced from the Argonne Tandem Linac Accelerator System (ATLAS). Targets were 1 mg/cm^2 98.1% enriched ^{160}Gd backed by 15 mg/cm^2 gold. γ rays were detected using the Argonne-Notre Dame BGO γ-ray facility consisting of 12 Compton-suppressed Ge detectors and a 50-element bismuth germanate (BGO) array. Measured Eγ, Iγ, γγ-coin. Deduced levels. γγ-coin gates were placed on known γ rays in specific A 160 products to select individual reaction channels and identify coincident γ rays in light product partners.

^{35}S Levels

E(level)[†]	Jπ[‡]
0	3/2$^+$
1991	7/2$^-$
4022	(9/2$^-$)

[†] From Eγ data in 1994Fo04.
[‡] As given in 1994Fo04.

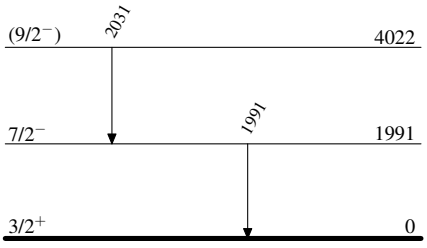
γ(^{35}S)

Eγ[†]	Ei(level)	Jiπ	Ef	Jfπ
1991	1991	7/2$^-$	0	3/2$^+$
2031	4022	(9/2$^-$)	1991	7/2$^-$

[†] From 1994Fo04.

^{160}Gd(^{34}S,xγ),(^{37}Cl,Xγ) 1994Fo04

Level Scheme



$^{35}_{16}S_{19}$