

$^{160}\text{Gd}(^{37}\text{Cl},\text{X}\gamma)$ 1994Fo04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, John Cameron and Balraj Singh		NDS 112,2715 (2011)	20-Oct-2011

1994Fo04: E=167 MeV ^{37}Cl beam produced from the Argonne Tandem-Linac Accelerator System (ATLAS) on a 1 mg/cm² ^{160}Gd (98%) target backed by a 15 mg/cm² gold foil. γ -rays detected with the Argonne- Notre Dame BGO γ -ray facility consisting of 12 Compton-suppressed Ge detectors and a 50-element bismuth germanate (BGO) array. Measured $\gamma\gamma$ -coin, $E\gamma$. Deduced levels.

 ^{35}P Levels

<u>E(level)[†]</u>	<u>Jπ[‡]</u>
0	1/2 ⁺
3860	5/2 ⁺
4101	(7/2 ⁻)
4493	(7/2 ⁻)

[†] From 1994Fo04.

[‡] From Adopted Levels.

 $\gamma(^{35}\text{P})$

<u>Eγ[†]</u>	<u>E_i(level)</u>	<u>Jπ_i</u>	<u>E_f</u>	<u>Jπ_f</u>
241	4101	(7/2 ⁻)	3860	5/2 ⁺
392	4493	(7/2 ⁻)	4101	(7/2 ⁻)
3860	3860	5/2 ⁺	0	1/2 ⁺

[†] From 1994Fo04.

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Level Scheme

