

$^{160}\text{Gd}(^{37}\text{Cl},\text{X}\gamma)$  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  $^{37}\text{Cl}$  beam produced from the Argonne Tandem-Linac Accelerator System (ATLAS) on a 1 mg/cm<sup>2</sup>  $^{160}\text{Gd}$  (98%) target backed by a 15 mg/cm<sup>2</sup> gold foil.  $\gamma$ -rays detected with the Argonne-Notre Dame BGO  $\gamma$ -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.

 $^{35}\text{S}$  Levels

E(level)	$J^\pi$ <sup>†</sup>
0	3/2 <sup>+</sup>
1991	7/2 <sup>-</sup>
4022	(3/2 <sup>-</sup> to 11/2 <sup>-</sup> )

<sup>†</sup> From Adopted Levels.

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

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
1991	1991	7/2 <sup>-</sup>	0	3/2 <sup>+</sup>
2031	4022	(3/2 <sup>-</sup> to 11/2 <sup>-</sup> )	1991	7/2 <sup>-</sup>

 $^{160}\text{Gd}(^{37}\text{Cl},\text{X}\gamma)$  1994Fo04Level Scheme