^{160}Gd(^{36}S,^{38}Sγ)   **1994Fo04**

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

1994Fo04: E=159 MeV ^{36}S beam was produced from the ATLAS linear accelerator at ANL. Target was 1.0 mg/cm^2 ^{160}Gd (98% enriched) on a gold backing. γ rays were detected with the Argonne-Nortre Dame BGO γ-ray array of 12 Compton-suppressed Ge detectors. Measured Eγ, $\gamma\gamma$-coin. Deduced levels. Comparisons with shell-model calculations.

^{38}S Levels

E(level)	J$^{\pi\dagger}$
0	0^+
1292	2^+
2805	(2^+)
2825	4^+
3674	(6^+)

† From Adopted Levels. Assignments in brackets are from shell-model predictions in 1994Fo04.

$\gamma(^{38}$S)

E$_\gamma$	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$
849	3674	(6^+)	2825	4^+
1292	1292	2^+	0	0^+
1513	2805	(2^+)	1292	2^+
1533	2825	4^+	1292	2^+

$^{160}Gd(^{36}S,^{38}S\gamma)$ **1994Fo04**

Level Scheme

(6+)			3674
4+			2825
(2+)			2805
2+			1292
0+			0

Transitions: 849, 1533, 1513, 1292

$^{38}_{16}S_{22}$