^{30}Si(^{16}O,pnγ)   **1975Ch37**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 190,1 (2023)	20-Jun-2023

1975Ch37: E=30 MeV ^{16}O beam produced from the MP tandem Van de Graaff accelerator. Targets of metallic Si (enriched to 95% in ^{30}Si) on gold backings. Ge(Li) detectors for detecting γ-rays. Measured Eγ, γ(t), perturbed $\gamma(\theta)$. Deduced T$_{1/2}$, g factors for the levels of 235 and 350 keV.

^{44}Sc Levels

g factor is measured using the time integral perturbed angular distribution technique (TIPAD) with an external fields (1975Ch37).

E(level)	J$^{\pi}$[†]	T$_{1/2}$[‡]	Comments
0	2$^+$		
235	2$^-$	6.12 ns 23	g=0.30 13 (1975Ch37)
350	4$^+$	3.13 ns 19	g=0.90 12 (1975Ch37)

[†] From the Adopted Levels.
[‡] From γ(t) (1975Ch37).

γ(^{44}Sc)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
235	235	2$^-$	0	2$^+$
350	350	4$^+$	0	2$^+$

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Level Scheme