

$^{30}\text{Si}(^{16}\text{O},2\text{p}\gamma)$ [1975Ki07](#)

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

[1975Ki07](#): E=30-40 MeV ^{16}O beam was produced from the ORNL tandem van de Graaff accelerator. Target was $50\text{ }\mu\text{g}/\text{cm}^2$ isotopically enriched ^{30}Si on thick Ta or $300\text{ }\mu\text{g}/\text{cm}^2$ Ag_2S (81.1% ^{36}S). The γ rays were detected with four Ge detectors. Measured E_γ , I_γ , $\gamma\gamma$ -coin. Deduced levels.

 ^{44}Ca Levels

<u>$E(\text{level})^\dagger$</u>	<u>J^π^\ddagger</u>
0	0^+
1157 <i>I</i>	2^+
2283 2	4^+
3284 2	6^+
5086 2	8^+

† From a least-squares fit to γ -ray energies.

‡ From the Adopted Levels.

 $\gamma(^{44}\text{Ca})$

<u>E_γ^\dagger</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
1001 <i>I</i>	3284	6^+	2283	4^+
1126 <i>I</i>	2283	4^+	1157	2^+
1157 <i>I</i>	1157	2^+	0	0^+
1802 <i>I</i>	5086	8^+	3284	6^+

† From [1975Ki07](#).

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Level Scheme

