

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

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, Balraj Singh and John A. Cameron		NDS 112, 2357 (2011)	31-Jul-2011

1975Ki07: E=30-40 MeV ^{16}O beam produced from the ORNL EN tandem. Target of 50 $\mu\text{g}/\text{cm}^2$ isotopically enriched ^{30}Si on thick Ta or 300 $\mu\text{g}/\text{cm}^2$ Ag_2S (81.1% ^{36}S). Four Ge detectors for detecting γ rays. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. Deduced levels.

 ^{44}Ca Levels

E(level) [†]	J^π [‡]
0	0^+
1157.0 10	2^+
2283.0 15	4^+
3284.0 18	6^+
5086.1 20	

[†] From least-squares fit to $E\gamma$ data.

[‡] From Adopted Levels.

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

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1001 1	3284.0	6^+	2283.0	4^+
1126 1	2283.0	4^+	1157.0	2^+
1157 1	1157.0	2^+	0	0^+
1802 1	5086.1		3284.0	6^+

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Level Scheme

