

$^{36}\text{Si}(\text{p},\text{p}'\gamma)$ 2007Ca35

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, John Cameron and Balraj Singh		NDS 113, 1 (2012)	31-Dec-2011

Primary beam of ^{48}Ca at 140 MeV/nucleon was provided by the Coupled Cyclotron Facility. ^9Be target used. ^{36}Si secondary beam isolated using A1900 fragment separator. Si particles directed onto the RIKEN LH₂ target. The γ -ray measuring array around the LH₂ target consisted of 16 SeGA detectors at angles of 37° and 90°.

Deformation parameter deduced from measured excitation cross section.

 ^{36}Si Levels

E(level)	J $^\pi$	Comments
0	0 $^+$	
1408	2 $^+$	Feeding-corrected excitation cross-section=7.3 mb 25. $\beta_2(\text{p},\text{p}')=0.24$ 4 (Vibrational), 0.23 +3–4 (prolate), 0.28 +4–5 (oblate). Sign of β_2 is not given.

 $\gamma(^{36}\text{Si})$

E $_\gamma$	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$
1408	1408	2 $^+$	0	0 $^+$

 $^{36}\text{Si}(\text{p},\text{p}'\gamma)$ 2007Ca35Level Scheme