

$^{44}\text{Ca}(n,n'\gamma)$ 1956Da23

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

1956Da23: (n,n' γ) E=3.95 MeV neutron beam was produced by $^3\text{H}(p,n)^3\text{He}$ with protons from the large Los Alamos electrostatic accelerator. Target was ^{44}Ca . γ rays were detected with a NaI detector. Measured E_γ . Deduced levels.

Other:

1989Ra06: (n,n) E=thermal neutron was produced from the Oak Ridge Research Reactor. Target was natural calcium sample. Measured Bragg diffraction pattern.

 ^{44}Ca Levels

E(level)	J^π [†]
0	0^+
1152 20	2^+

[†] From the Adopted Levels.

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

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1152 20	1152	2^+	0	0^+	Cross section for γ -ray from inelastic scattering: 23 mb 6.

[†] From [1956Da23](#).

 $^{44}\text{Ca}(n,n'\gamma)$ 1956Da23Level Scheme