

$^{43}\text{Ca}(\text{p,n}),(\text{p,n}\gamma)$ 1967Mc07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen [#]		NDS 126, 1 (2015)	31-Mar-2015

1967Mc07: (p,n): E=4.0-5.5 MeV proton beam was produced from the SUNI 5.5 MV Van de Graaff accelerator. Target of CaO evaporated onto 0.025 cm tantalum discs 2.5 cm in diam. Neutrons were detected by a NE 213 liquid scintillator. Measured $\sigma(E_n)$.

Deduced levels.

1960Mc12: (p,n): E<4.9 MeV. Measured $\sigma(E)$. Deduced levels.

1971De17: (p,n): E<5.6 MeV. Measured $\sigma(E)$.

1972Bi13: (p,n γ): measured ce, deduced $\alpha(\text{expt})$ for 152 γ .

 ^{43}Sc Levels

E(level)[†]

0
 152[‡] 5
 476[#] 5
 855[@] 5
 881 5
 1175 10
 1347 10
 1424 10
 1677 15

[†] From 1967Mc07.

[‡] 138 8 (1960Mc12).

[#] 456 10 (1960Mc12).

[@] 874 10 (1960Mc12).

 $\gamma(^{43}\text{Sc})$

<u>E$_{\gamma}$</u>	<u>E$_i$(level)</u>	<u>E$_f$</u>	<u>Mult.</u>	<u>Comments</u>
152	152	0	M2	Mult.: from $\alpha(\text{expt})=0.041$ 4 (1972Bi13).

 ${}^{43}\text{Ca}(\text{p,n}),(\text{p,n}\gamma)$ 1967Mc07Level Scheme