

$^{48}\text{Ca}(^{48}\text{Ca},\text{X}\gamma)$ 2005Br18

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Wang Jimin and Huang Xiaolong		NDS 144, 1 (2017)	1-Mar-2016

Includes $^{238}\text{U}(^{48}\text{Ca},\text{X}\gamma)$ E=330 MeV.

E=210 MeV. Measured E γ using the Gammasphere array in deep-inelastic heavy ion reactions.

 ^{51}Sc Levels

E(level)@	J $^{\pi}$ #
0 †	(7/2) $^{-}$
1065.1 †	(11/2) $^{-}$
3881.1 †	(15/2) $^{-}$
4825.6 †	(15/2) $^{-}$ ‡
5540.2 †	(17/2) $^{+}$ ‡
6184.0 †	(19/2) $^{+}$ ‡

† Seq.(A): Strongly populated γ -ray sequence.

‡ From shell model calculations.

From Adopted Levels, except as noted.

@ Uncertainty unstated by authors.

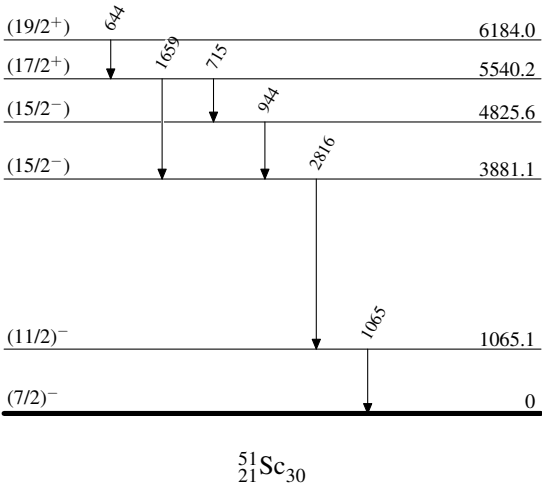
 $\gamma(^{51}\text{Sc})$

E $_{\gamma}$ †	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$
644	6184.0	(19/2) $^{+}$	5540.2	(17/2) $^{+}$
715	5540.2	(17/2) $^{+}$	4825.6	(15/2) $^{-}$
944	4825.6	(15/2) $^{-}$	3881.1	(15/2) $^{-}$
1065	1065.1	(11/2) $^{-}$	0	(7/2) $^{-}$
1659	5540.2	(17/2) $^{+}$	3881.1	(15/2) $^{-}$
2816	3881.1	(15/2) $^{-}$	1065.1	(11/2) $^{-}$

† Uncertainty unstated by authors.

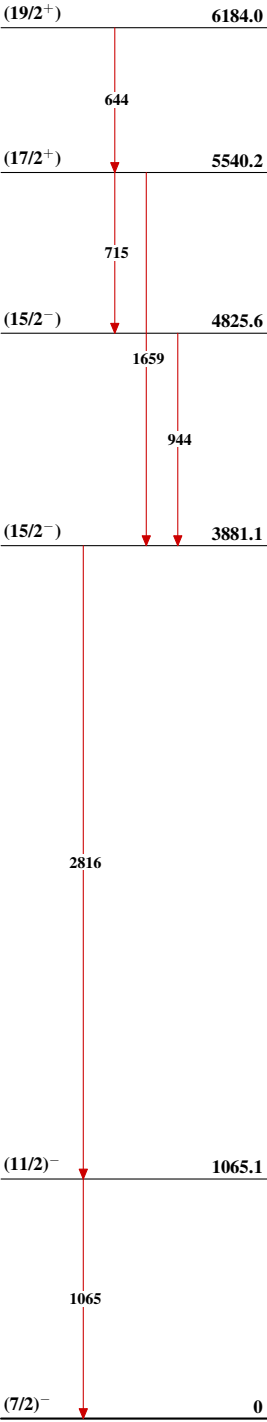
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Level Scheme



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Seq.(A): Strongly populated γ -ray sequence



$^{51}_{21}\text{Sc}_{30}$