

$^{48}\text{Ca}(\alpha, \text{p})$ **1983El08,1970Gi10**

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

1987PaZZ: E=15 MeV, measured DSA and $p\gamma$ coin; states of 862, 1394, and 2347 were observed in the γ spectrum.

1983El08: E=25 MeV; measured $\sigma(E(p), \theta)$; DWBA analysis. FWHM $\approx$ 50 keV.

1970Gi10: E=31 MeV, FWHM=150 keV; measured $\sigma(E(p), \theta)$; DWBA analysis.

1967Gi09: earlier report of data in **1970Gi10**.

 ^{51}Sc Levels

<u>E(level)[†]</u>	<u>J$\pi^{\ddagger}$</u>	<u>L[#]</u>	<u>E(level)[†]</u>	<u>J$\pi^{\ddagger}$</u>	<u>L[#]</u>	<u>E(level)[†]</u>	<u>J$\pi^{\ddagger}$</u>	<u>L[#]</u>	<u>E(level)[†]</u>
0	(7/2) ⁻	(3)	1391 5			2709 7	(3/2) ⁻	(1)	3041 7
859 5	(3/2) ⁻	(1)	2313 10			2887 7			3069 7
1062 5	(11/2) ⁻	(5)	2343 7	(1/2) ⁻	(1)	2996 7			3193 7

[†] From **1983El08**.

[‡] From $\sigma(\theta)$ DWBA analysis for L transfer and shell model (**1970Gi10**).

[#] From DWBA analysis of measured $\sigma(\theta)$ (**1970Gi10,1967Gi09**). **1983El08** do not corroborate the assignments of (**1967Gi09,1970Gi10**). The DWBA fits are not good.