

$^{52}\text{Cr}(\pi^+, \pi^+), (\pi^+, \pi^{+'})$ 1987Oa01, 1988Oa01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 128, 185 (2015)	10-Jul-2015

Includes: $^{52}\text{Cr}(\pi^-, \pi^-), (\pi^-, \pi^{-'})$.

[1987Oa01](#), [1988Oa01](#): E=180 MeV, FWHM=150 keV, measured $\sigma(\theta)$, energetic pion channel and spectrometer (EPICS) consisted of a momentum dispersing channel and a high resolution spectrometer. analyzed using the distorted-wave impulse approximation (DWIA) calculations with collective-model transition densities.

[1996Oa01](#): E=180 MeV, FWHM: 135 keV, measured $\sigma(\theta)$, energetic pion channel and spectrometer (EPICS).

 ^{52}Cr Levels

E(A),J(A) From [1988Oa01](#).

E(level) [†]	J π [‡]	L	Comments
0.0	0 ⁺		
1.43×10 ³	2 ⁺		B(E2) \uparrow =0.0588 23 (1987Oa01)
2.37×10 ³	4 ⁺		B(E4) \uparrow =0.00066 10 (1987Oa01)
2.65×10 ³	0 ⁺		
2.77×10 ³	4 ⁺		
2.96×10 ³	2 ⁺		
3.16×10 ³	2 ⁺		
3.42×10 ³	(4 ⁺)		
3.77×10 ³	2 ⁺		B(E2) \uparrow =0.0095 8 (1987Oa01)
4.04×10 ³	4 ⁺		
4.56×10 ³	3 ⁻		B(E3) \uparrow =0.0068 5 (1987Oa01)
4.63×10 ³	4 ⁺		
4.71×10 ³	2 ⁺	2	L: from 1988Oa01 .

[†] From [1987Oa01](#), except as noted.

[‡] DWIA analysis of $\sigma(\theta)$, from [1987Oa01](#), except as noted.