

$^{50}\text{Cr}(\alpha, \text{d})$ 1974Ga16,1994Fi01

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

1974Ga16: E=31.2 MeV, measured $\sigma(E(\text{d}),\theta)$, ΔE -E telescope, surface barrier detector, FWHM=45 keV.

1994Fi01: E=55.4 MeV, measured $\sigma(E(\text{d}),\theta)$. FWHM=120 keV, $\theta(\text{lab})=15^\circ - 25^\circ$ (2.5° steps), $30^\circ - 70^\circ$ (5° steps), a ΔE -E silicon detector telescope, a 300 μm ΔE counter, three 2 mm E counters, DWBA analysis.

All data are from 1974Ga16, except as noted.

 ^{52}Mn Levels

E(level)	J^π [‡]	L	Comments
550 20			
880 20	7 ⁺	(6)	Configuration= $((F_{7/2})^2)7^+$ (1994Fi01).
1260 20		4	
1680 20		4	
2130 20		4	
2350 20		4	
2640 20		2	
2800 20		(0)	
2860 20		2,4	
2900 20		2	
2990 20			
3130 20			
3260 20			
3460 20		(4)	
3600 20			
3900 20			
4040 20			
4.34×10^3 † 3			
5.52×10^3 † 3	8 ⁻		configuration= $(f_{7/2}, g_{9/2})8^-$ (1994Fi01).
5.79×10^3 † 3			
6.26×10^3 † 3	6 ⁻		configuration= $(g_{9/2}, p_{3/2})6^-$ (1994Fi01).
6.99×10^3 † 3	6 ⁻		configuration= $(g_{9/2}, p_{3/2})6^-$ (1994Fi01).
7.48×10^3 † 3			

[†] From 1994Fi01.

[‡] From 1994Fi01, based on angular distributions and DWBA analysis.