

$^{50}\text{Cr}(\alpha, \text{p})$ 1978An10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huo Junde	NDS 110,2689 (2009)	31-Mar-2007

E=26 MeV, FWHM=45-60 keV, measured: $\sigma(E, \theta)$, DWBA analysis.

 ^{53}Mn Levels

E(level) [#]	J π [†]	d σ /d Ω [‡]	E(level) [#]	J π [†]	d σ /d Ω [‡]	E(level) [#]	d σ /d Ω [‡]
0	7/2 ⁻	36.7	4787		13.2	6177	33.1
1288	3/2 ⁻	10.9	4840		9.9	6256	52.2
2413	3/2 ⁻	119	4950		26.6	6342	56.4
2578	7/2 ⁻	7.0	5032		20.4	6418	67.5
2684	1/2 ⁻	50.1	5112			6542	80.4
3110	(5/2) ⁻	13.7	5155		38.4	6601	75.0
3460	1/2 ⁻	40.5	5240			6744	34.4
3561	(11/2) ⁻	44.4	5356	$\geq 9/2$	7.3	6873	50.3
3670	5/2 ⁻	37.2	5446	(7/2) ⁻	14.1	6990	19.8
3893	1/2 ⁻	43.2	5492	1/2 ⁻	42.8	7083	22.3
4067	(7/2) ⁻	65.5	5814	(11/2) ⁻	36.5	7574	29.8
4305		14.1	5881		22.7	7899	23.9
4562		8.4	6006		18.0	8016	61.0
4626		10.4	6119		29.7		

[†] From J dependence of $\sigma(\theta)$ and known L-value from single-particle transfer reactions.

[‡] d σ /d Ω (20.8°, $\mu\text{b/sr}$).

[#] Authors state that ΔE are generally <10 keV, with somewhat higher values for weak or poorly-resolved groups.