

$^{52}\text{Cr}(\alpha, p)$ 1978An10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huo Junde	NDS 109, 787 (2008)	30-Apr-2007

E=18, 26 MeV, pulsed beam; cooled surface-barrier detector telescopes. Measured $\sigma(E(p), \theta)$; DWBA analyses (assuming a quasi-triton transfer process); studied L=1,3 J dependence by comparing angular distributions for which L-transfer values have previously been determined in single-proton transfer reactions; assigned J^π utilizing this J dependence.

 ^{55}Mn Levels

E(level)	J^π	L [†]	Comments
0.0			
128	$7/2^-$	3	
983			
1291 [‡]			
1528	$3/2^-$	1	
1883	$7/2^-$	3	
2197			
2258	$3/2^-$	1	
2562	$3/2^-$	1	
2741 [‡]			
2980		2	
3041	$3/2^-$	1	
3136	$5/2^-$	3	
3263	$(3/2^-)$ [#]		
3354	$(3/2^-)$ [#]		
3431	$1/2^-$	1	
3608	$(5/2^-)$	3	J^π : from Adopted Levels. Authors' value $J=(3/2^-)$.
3847			
3989	$3/2^-$	1	
4086	$3/2^-$	1	L: quoted by authors from 1976Ko12.
4266	$(3/2^-)$ [#]		
4640		1	
4736	$3/2^-$	1	
5260			
5365		1	
5498	$7/2^-, 5/2^-$	3	J^π : from Adopted Levels. Authors' value $J=7/2^-, 9/2^+$.
6069	$(3/2^-)$ [#]		
6164			

[†] Quoted from 1969Ra02 by authors, except as noted.

[‡] May be unresolved doublet level.

[#] Based on the fits and on strong similarity of the shapes to the 3041 level.