^{71}Ga(d,p) 1973Yn01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 111,1 (2010)	1-May-2009

$J^{\pi}(^{71}Ga)=3/2^{-}$.
E=12 MeV, magnetic spectrograph, $\sigma(\theta)$, θ=10°−135°, FWHM≈18 keV, DWBA analysis (1973Yn01).
Other: 1970Sa22.

^{72}Ga Levels

E(level)†	L‡	C^2S'#	Comments
162 *3*	1	0.06	
208 *3*	1	0.04	
250 *3*	4	2.75	
274 *3*			
331 *3*	4	0.38	
400 *3*	4	2.66	
560			
605 *3*	1	0.08	
639 *3*	4	0.41	
684 *3*	1	0.05	
709 *3*	4	0.65	
741 *3*	2	0.09	
856 *3*	1	0.2	
900 *3*	3	0.7	L: C^2S' value corresponds well with the value for L=3 to the 904 state in ^{69}Ga(d,p)^{70}Ga.
917 *3*			
983 *3*	1	0.03	
1038 *3*			
1061 *3*	1	0.02	
1150 *3*	1	0.04	
1208 *3*			
1267 *3*	2	0.15	
1338 *3*			
1380 *3*	2	0.03	
1435 *3*	(3)	1.7	L: not a good fit, could be fitted with L=2+4 also.
1473 *3*			
1517 *3*			
1558 *3*	2	0.1	
1592 *3*	0	0.03	
1633 *3*	0	0.03	
1685 *3*	(3)	1.1	L: not a good fit, could be fitted with L=2+4 also.
1732 *3*			
1752 *3*	2	0.06	
1782 *3*	2	0.06	
1798 *3*	0	0.04	
1872 *3*			
1919 *3*			
1989 *3*			
2059 *3*			

† The g.s. was not observed in this reaction.
‡ From DWBA. 1973Yn01 cast some doubt on the correctness of L=3 measurements, commenting that, by comparison with L=3 transfers in ^{69}Ga(d,p), the C^2S' values are unexpectedly large.
# $d\sigma/d\Omega$(DWBA) calculated with the computer code JULIE have been multiplied by 1.6.