^{76}Ge(α,p) 1980Ro09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 135, 193 (2016)	31-May-2016

E=26 MeV.

Split-pole magnetic spectrometer and solid-state position sensitive detectors. FWHM=12 keV. Angular distributions from 5° to 45° in steps of 8° (lab angles). DWBA analysis.

Data analyzed by assuming that two neutrons couple to J=0, so that triton transfer behaves like a simple proton transfer.

^{79}As Levels

Cross sections at 13° (lab system) are given by 1980Ro09.

E(level)†	Jπ‡	L	S#	E(level)†	Jπ‡	L	S#	E(level)†	Jπ‡	L	S#
0	3/2−	1	2.2	881@ *4*				1806 *8*	(9/2)+	4	1.3
109@ *3*				1016@ *5*				1872@ *8*			
233 *3*	(5/2)−	3	3	1045@ *5*	(1/2)−	(1)	0.18	1891 *8*	(1/2)−	1	0.4
499 *3*	(1/2)−	1	1.2	1140@ *6*				1942@ *8*			
607@ *4*				1405@ *6*				1964 *8*	(9/2)+	4	1.2
633@ *4*				1437@ *6*							
777 *4*	(9/2)+	4	3.6	1702@ *8*							

† Energy spectra calibrated by using well known level energies in the ^{67}Ga, ^{69}Ga and ^{71}Ga nuclides.

‡ From deduced L-transfer. The following active proton shells were considered: $p_{3/2}$, $f_{5/2}$, $p_{1/2}$, $g_{9/2}$. The $f_{7/2}$ shell was assumed filled. For L=1 transfer the authors claim to distinguish between $p_{3/2}$ and $p_{1/2}$ on the basis of shapes of $\sigma(\theta)$ distributions.

Spectroscopic strengths relative to that for ^{71}Ga g.s..

@ Weakly populated levels.