^{73}Ge(^{3}He,d) 1973Ro14

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Ameenah R. Farhan	NDS 107, 1923 (2006)	30-Apr-2006

E=17 MeV.
$J^{\pi}(^{73}Ge\ g.s.,target)=9/2^{+}$.
Multiangle spectrograph. FWHM=30 keV. $\sigma(\theta)$ 3.75° to 86.25° In steps of 7.5°. DWBA analysis.

^{74}As Levels

Cross sections listed under comments are At an angle where the value is maximum.

E(level)	L	$(2J_f+1)C^2S$[†]	Comments
0	3	0.19	$d\sigma/d\Omega$=0.03 mb/sr.
182 *10*			$d\sigma/d\Omega$=0.02 mb/sr.
273 *10*	1+3	0.16,0.58	$d\sigma/d\Omega$=0.30+0.09 mb/sr.
338 *10*	1+3	0.37,1.35	$d\sigma/d\Omega$=0.68+0.21 mb/sr.
421 *10*			$d\sigma/d\Omega$=0.05 mb/sr.
547 *10*	1	0.73	$d\sigma/d\Omega$=1.37 mb/sr.
633 *10*	1+3	0.11,0.42	$d\sigma/d\Omega$=0.21+0.10 mb/sr.
687 *10*	1	0.27	$d\sigma/d\Omega$=0.51 mb/sr.
730 *10*			$d\sigma/d\Omega$=0.01 mb/sr.
774 *10*	1+3	0.06,0.20	$d\sigma/d\Omega$=0.12+0.05 mb/sr.
836 *10*	1	0.26	$d\sigma/d\Omega$=0.68 mb/sr.
908 *10*	1	0.07	$d\sigma/d\Omega$=0.06 mb/sr.
955 *10*	3	0.12	$d\sigma/d\Omega$=0.03 mb/sr.
1007 *10*	1	0.08	$d\sigma/d\Omega$=0.21 mb/sr.
1112 *10*	4	1.08	$d\sigma/d\Omega$=0.14 mb/sr.
1363 *10*			
1471 *10*	1	0.02	$d\sigma/d\Omega$=0.05 mb/sr.
1528 *10*	1+3	0.02,0.12	$d\sigma/d\Omega$=0.06+0.02 mb/sr.
1624 *10*	3	0.42	$d\sigma/d\Omega$=0.07 mb/sr.
1749 *10*	3	0.30	$d\sigma/d\Omega$=0.05 mb/sr.
1873 *10*			$d\sigma/d\Omega$=0.20 mb/sr.
1913 *10*			$d\sigma/d\Omega$=0.10 mb/sr.
2064 *10*			$d\sigma/d\Omega$=0.09 mb/sr.
2108 *10*	4	0.48	$d\sigma/d\Omega$=0.08 mb/sr.
2194 *10*	3	0.16	$d\sigma/d\Omega$=0.03 mb/sr.

[†] $(2J_f+1)C^2S=[d\sigma/d\Omega(exp)(2J_i+1)]/[Nd\sigma/d\Omega(DWBA)]$, where J_f=spin of final state, J_i=spin of target ($9/2^{+}$); N=4.42. For mixed L-transfers values refer to two L-values, respectively.