

$^{70}\text{Ge}(\text{p,d})$ **1975ShYV**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 115, 1 (2014)	31-Jul-2013

1975ShYV: E=35 MeV; magnetic spectrograph, resolution (FWHM)=8 keV; measured $\sigma(\theta)$, $\theta=6^\circ-60^\circ$; DWBA analysis.

1972Hs01: E=20 MeV; solid state detectors, resolution (FWHM)=30 keV; measured $\sigma(\theta)$, DWBA analysis.

 ^{69}Ge Levels

E(level) [†]	L [‡]	C ² S [#]	E(level) [†]	L [‡]	C ² S [#]	E(level) [†]	L [‡]	C ² S [#]	E(level) [†]	L [‡]	C ² S [#]
0	3	3.80	1477 4	3	0.96	2359 4	1	0.04	3173 5	3	0.18
87 1	1	0.56	1537 4	1	0.03	2370 4	3	0.08	3232 5	1	0.02
233 1	1	0.10	1611 4	3	0.25	2395 4	(4)	0.22	3374 5		
374 1	1	1.67	1724 4	1	0.03	2458 4			3410 5	3	0.09
398 1	4	0.95	1763 4	0	0.12 ^{&}	2500 5			3460 5	(4)	0.13
813 2	2	0.09	1887 8	1	0.02	2617 5	1	0.01	3482 5		
995 2	1	0.32	1919 5			2637? 10			3615 7	1	0.01
1159 2	1	0.06	1989 5	2	0.02	2741 7	1	0.1	3622 7		
1278 2	1	0.02	2012 5			2765 7	3	0.12	3680 7	1	0.02
1306 2	1	0.08	2091 4	0	0.02	2812 7	1	0.03	3729 [@] 7		
1406? 2			2106 4	1	0.16	2853 [@] 7	3	0.08	3798 [@] 7	3	0.22
1414 2	3	0.28	2145 4	4	0.30	2959 5	1	0.02	3828		
1438 2			2194 4	1	0.03	2985 5	(2)	0.03			
1468 5	4	0.09	2350 4	3	0.15	3073 5	2	0.02			

[†] From **1975ShYV**. **1972Hs01** report E=2389 15, 2469 15 and 2645 15. The 2469 is probably an unresolved peak that includes the 2458 and 2500 peaks of **1975ShYV**. Similar case for 1907 6 and for 1212 6 in **1972Hs01**.

[‡] From DWBA analysis of $\sigma(\theta)$ (**1975ShYV**).

[#] Values have been calculated for J=5/2 when L=2 or 3 and J=9/2 when L=4. For L=1 C²S is assumed to be approximately independent of J (**1975ShYV**).

[@] Unresolved doublet.

[&] Probably a misprint; the plots show it to be much smaller.