
 $^{74}\text{Ge}(\text{p},\alpha)$ **1982Pe07**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 188,1 (2023)	17-Jan-2023

1982Pe07: E=36.25 MeV proton beam from the Milano azimuthally varying field cyclotron. 94.5% enriched target backed on $100\mu\text{g}/\text{cm}^2$ Carbon. Measured $\sigma(\theta)$ for $\theta(\text{lab})=7.5^\circ-65^\circ$ with two silicon surface barrier detectors (FWHM=85 keV). Deduced levels, L transfers from DWBA analysis of $\sigma(\theta)$ data.

Excitation energies determined with an uncertainty of 50 keV in this experiment.

 ^{71}Ga Levels

E(level) [†]	L	σ (μb) [#]	E(level) [†]	L	σ (μb) [#]	E(level) [†]	L	σ (μb) [#]
0	1	17 4	910 ^{‡@} 50	1	7 [@] 3	1480 ^{‡@} 50	3	14 [@] 4
390 50	1	1.3 7	960 ^{‡@} 50	3	@	1490 ^{‡@} 50	4	@
490 ^{‡@} 50	3	36 [@] 7	1110 50	1+3	6 3	1900 50	3	38 8
510 ^{‡@} 50	1	@	1390 50	3	22 4			

[†] From Fig. 1 of **1982Pe07**, quoted uncertainty is 50 keV.

[‡] Unresolved doublet.

[#] Integrated cross section, generally from 7.5° to 60° .

[@] Unresolved doublets. Cross sections are combined values for 490+510, 910+960, and 1480+1490 doublets.