^{162}Dy(p,t) 1972Ma37

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 176, 1 (2021)	1-May-2021

E(p)=17.5 MeV. Enriched (96.3% ^{162}Dy) target, consisting of ≈100 μg/cm^2 metallic foils evaporated onto 120 μg/cm^2 Al backings. Tritons detected in photographic emulsions following magnetic analysis in split-pole spectrograph. Energy resolution=12 keV. Measured energy spectra, angular distributions, and absolute dσ/dΩ at 25°. These absolute cross sections are reported to be accurate to better than 20%.

^{160}Dy Levels

E(level)	L	dσ/dΩ(mb/sr)[†]	Comments
0.0[‡] *5*	0	0.65	
87[‡] *5*	2	0.16	
284[‡] *5*	4	0.04	
581[‡] *5*		0.01	
966[#] *5*	2	0.04	
1275[@] *5*	0	0.10	
1339[@] *5*		0.02	from systematics of strongly populated excited 0$^+$ states in other strongly deformed nuclides, this level is most likely the 2$^+$ member of the 0$^+$ band at 1275 keV.

[†] Values at θ=25°.
[‡] Band(A): ground-state rotational band.
[#] Band(B): γ-vibrational band.
[@] Band(C): excited 0$^+$ band.

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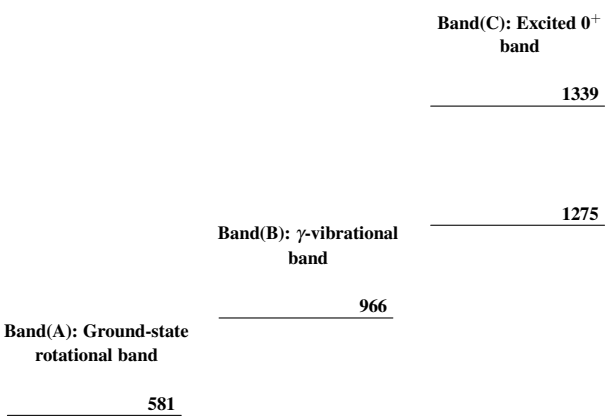

$^{160}_{66}Dy_{94}$