^{70}Ge(γ,γ') 1995Ju01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan	NDS 136, 1 (2016)	1-Jul-2016

E_γ=4 MeV. The scattered γs were detected by a Ge spectrometer consisting of 4 Ge detectors placed at different scattering angles. Measured $\gamma(\theta)$.

^{70}Ge Levels

E(level)[†]	J^π[#]	Γ (MeV)	$\Gamma^2_{\gamma 0}/\Gamma$ (MeV)[‡]	Comments
0.0	0^+			
3240.4 *4*	1	9.1 *26*	3.0 *6*	$\Gamma^2_{\gamma 0}/\Gamma$ (MeV): 14 *2* at 10 MeV. I_s: Integrated photon scattering cross section = 3.3 eVb *6*.
3314.8 *4*	1	11 *3*	11 *3*	$\Gamma^2_{\gamma 0}/\Gamma$ (MeV): 55 *6* at 10 MeV. Γ'(MeV): $\Gamma=\Gamma_0$. I_s: Integrated photon scattering cross section = 11.3 evb *27*.
3895.1 *8*	1	14 *5*	14 *5*	$\Gamma^2_{\gamma 0}/\Gamma$ (MeV): 31 *7* at 10 MeV. Γ'(MeV): $\Gamma=\Gamma_0$. I_s: Integrated photon scattering cross section = 10.6 evb *34*.

† From observed ground state gamma-ray transitions.
‡ Values at 4 MeV.
# Deduced from measured gamma-ray transition multipolarities.

$\gamma(^{70}Ge)$

E_γ[†]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]
3240.4	3240.4	1	0.0	0^+	D
3314.8	3314.8	1	0.0	0^+	D
3895.1	3895.1	1	0.0	0^+	D

† From 1995Ju01.
‡ From $\gamma(\theta)$ in 1995Ju01. Intensity ratios W(90°)/W(127°) are presented in Figure 6 and are consistent with dipole character.

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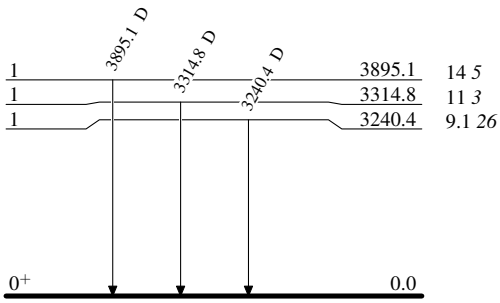
Level Scheme



$^{70}_{32}Ge_{38}$