

$^{72}\text{Ge}(\text{d,d}'), (\text{pol d,d}') \quad \text{1967Kr01,1978Sz08}$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 111,1 (2010)	1-May-2009

(d,d') E=12 MeV, FWHM $\approx$ 70 keV, $\sigma(\theta)$ from 30° to 165° , DWBA ([1967Kr01](#))
(pol d,d') E=16 MeV, FWHM=70 keV, $\sigma(\theta)$ from 30° to 145° , measured analyzing powers, DWBA and coupled-channels calculation ([1978Sz08](#))
(pol d,d) E=8 and 16 MeV, (pol d,d') E=16 MeV, $\sigma(\theta)$, $A(\theta)$ vibrational model coupled-channels calculation ([1985Se05](#))

 ^{72}Ge Levels

E(level) [†]	J π [‡]	Comments
0.0	0 ⁺	
694	0 ⁺	
835	2 ⁺	$\beta_2=0.197$ (1967Kr01), 0.170 <i>I5</i> (1985Se05).
1466	2 ⁺	
1727	4 ⁺	
2043	(4 ⁺) [#]	$\beta_4=0.04$ (1978Sz08), vibrational coupled-channels fit to data.
2400	2 ⁺ [#]	$\beta_2=0.05$ (1978Sz08).
2522	3 ⁻	$\beta_3=0.206$, B(E3)=0.036 (1967Kr01).
2956	(3 ⁻ ,2 ⁺) [#]	J π : neither $\Delta\pi$ value gives good fit. $\beta_3=0.07$ (1978Sz08).
3092	4 ⁺ [#]	$\beta_4=0.08$ (1978Sz08).
3400	(2 ⁺) [#]	$\beta_2=0.06$ (1978Sz08).

[†] From [1978Sz08](#).

[‡] From Adopted Levels, except where noted.

[#] Based on coupled-channels fit to angular distributions and analyzing powers ([1978Sz08](#)).