

$^{80}\text{Se}(\alpha,\alpha')$ 1988Ba35

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 105, 223 (2005)	22-Jun-2005

Includes (α,α) .

E=25 MeV. Measured $\sigma(\theta)$, FWHM=100-200 keV. Results analyzed by optical-model and coupled-channel analysis and deformation parameters deduced using harmonic vibration model (HVM) and asymmetric rotational model (ARM).

Others:

[Additional information 1.](#)

[1983MaZJ](#): (α,α') E=120 MeV, FWHM=20-30 keV. Measured $\sigma(\theta)$.

[1982En04](#): (α,α) E=25 MeV. Measured $\sigma(\theta)$, deduced optical-model parameters.

[1965Be21](#): (α,α') E=42 MeV.

[1960Cr05](#): (α,α') E=2-3 MeV.

 ^{80}Se Levels

E(level)	J^π [†]	Comments
0	0 ⁺	
670	2 ⁺	$\beta_2=0.255$ (HVM), 0.190 (ARM).
1450	2 ⁺ & 0 ⁺	Unresolved 0 ⁺ and 2 ⁺ levels, but main contribution is expected from 2 ⁺ state. $\beta_2=0.05$ (HVM).
1700	4 ⁺	$\beta_4=0.07$ (HVM), -0.02 (ARM).
2720	3 ⁻	$\beta_3=0.161$ (HVM). Other: 0.171 (value quoted from 1965Be21).

[†] From 'Adopted Levels'.