

$^{76}\text{Se}(\alpha,\alpha')$ 1988Ba35

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Jun Chen and Ameenah R. Farhan		NDS 194,3 (2024)	8-Jan-2024

1988Ba35: E=25 MeV. Measured $\sigma(\theta)$, FWHM=100-200 keV. Optical-model and coupled-channel calculations using harmonic vibrational model (HVM) and asymmetric rotational model (ARM).

Others:

1965Be21: E=42 MeV, FWHM=100 keV. First 0^+ , 2^+ and 3^- levels reported.

1983MaZJ: (α,α') E=120 MeV.

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

1984Sr01: theoretical analysis.

 ^{76}Se Levels

E(level) [†]	L [‡]	β_L (HVM) [‡]	Comments
0	0		
560	2	0.356	$\beta_2(\text{ARM})=0.265$, $\beta_2(\text{HVM})=0.356$.
1210	2	0.1	
1790	2	0.07	
2430	3	0.183	

[†] From **1988Ba35**.

[‡] From couple-channel analysis of measured $\sigma(\theta)$ (**1988Ba35**).