^{82}Se(p,p′),(pol p,p′) 1986Og01,1984De01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, E. Browne	NDS 157, 260 (2019)	1-Mar-2019

1986Og01: E=64.8 MeV. Enriched target. Magnetic spectrometer, FWHM=20 keV. θ=8° to 60°.
1984De01: (pol p,p′), E=16 MeV. Enriched target. Measured $\sigma(\theta)$, vector-analyzing power. DWBA and coupled-channels analysis.
Other (pol p,p′) measurements (1983Ma59,1979Ma28,1970He10) support the results of 1984De01.

^{82}Se Levels

Other (p,p′) measurement: 1974MuZB, E=9 MeV. Enriched target.

E(level)†	Jπ‡	L#	β_L@	E(level)†	Jπ‡	L#	β_L@	E(level)†	L#	β_L@
0	0^+			3015 *4*	3^-	3	0.128	3750 *4*	2	0.023
654 *2*	2^+	2	0.162	3106 *4*		4	0.038	3798 *4*	4	0.019
1410& *3*				3293 *4*		4	0.019	3866 *4*	3	0.036
1731 *2*	$(2^+)^a$	2^a	0.040	3384 *4*		3	0.023	3916 *4*	2	0.021
1734 *2*	$(4^+)^a$	$(4)^a$		3587 *4*		2	0.019	4026 *4*		
2552 *2*				3624 *4*				4538 *4*		
2899 *2*		5		3677 *4*		4	0.026	4586 *4*	4	0.026

† From (p,p′) (1986Og01).
‡ From DWBA analysis of $\sigma(\theta)$ and VAP (1984De01).
# From DWBA and coupled-channels analysis of $\sigma(\theta)$ (1986Og01).
@ β_L from coupled-channels analysis of 1986Og01 if R=1.22×A$^{1/3}$.
& Only observed by 1974MuZB.
a Doublet is not resolved in (pol p,p′); DWBA gives 2^+ and 4^+. From decay pattern in (p,p′γ) it is clear that the lower excited member is the 2^+. Same applies to (p,p′).