

$^{78}\text{Se}(\text{d,p}\gamma)$ 1989PrZX

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 135, 193 (2016)	31-May-2016

E=5-8 MeV. Measured γ , $\gamma\gamma$, excitation functions.
The level scheme is taken from $^{76}\text{Ge}(\alpha, n\gamma)$.

 ^{79}Se Levels

E(level) [†]	J π [‡]	T _{1/2} [‡]	E(level) [†]	J π [‡]	E(level) [†]	J π [‡]
0.0	7/2 ⁺	3.92 min <i>I</i>	728.5 2	5/2 ⁺	1156 1	1/2 ⁺
96.1 2	1/2 ⁻		790.4 2	(7/2 ⁻)	1231.7	(7/2 ⁺)
137.1 1	9/2 ⁺		818.9 1	(7/2 ⁺)	1253.4 2	5/2 ⁺
365.0 1	5/2 ⁻		897.3 2	11/2 ⁺	1312.1 3	(7/2 ⁻)
527.8 1	3/2 ⁻		974.5 4	3/2 ⁻	1322.1 3	(5/2 ⁻)
572.0 1	5/2 ⁻		1080.2 4	(3/2)	1340.0 2	9/2 ⁻
630.1 2	5/2 ⁺		1089.0 4	(3/2 ⁻)	1417.9 4	(7/2)

[†] From least-squares fit to E_γ data.

[‡] From Adopted Levels.

 $\gamma(^{79}\text{Se})$

Intensities are not available. The excitation function data are given by 1989PrZX at 5, 6, 7 and 8 MeV.

E _γ [†]	E _i (level)	J π _i	E _f	J π _f	Mult. [‡]	E _γ [†]	E _i (level)	J π _i	E _f	J π _f
96.1 [#] 2	96.1	1/2 ⁻	0.0	7/2 ⁺	E3	692	1417.9	(7/2)	728.5	5/2 ⁺
137.1 1	137.1	9/2 ⁺	0.0	7/2 ⁺		715.2 3	1080.2	(3/2)	365.0	5/2 ⁻
207.0 3	572.0	5/2 ⁻	365.0	5/2 ⁻		724.0 3	1089.0	(3/2 ⁻)	365.0	5/2 ⁻
365.0 1	365.0	5/2 ⁻	0.0	7/2 ⁺		725.6 2	1253.4	5/2 ⁺	527.8	3/2 ⁻
425.4 2	790.4	(7/2 ⁻)	365.0	5/2 ⁻		728.6 [@] 2	728.5	5/2 ⁺	0.0	7/2 ⁺
432.1 1	527.8	3/2 ⁻	96.1	1/2 ⁻		740.1 3	1312.1	(7/2 ⁻)	572.0	5/2 ⁻
446.7 3	974.5	3/2 ⁻	527.8	3/2 ⁻		750.0 3	1322.1	(5/2 ⁻)	572.0	5/2 ⁻
476.2 1	572.0	5/2 ⁻	96.1	1/2 ⁻		760.2 1	897.3	11/2 ⁺	137.1	9/2 ⁺
492.9 2	630.1	5/2 ⁺	137.1	9/2 ⁺		768.0 1	1340.0	9/2 ⁻	572.0	5/2 ⁻
601.6	1231.7	(7/2 ⁺)	630.1	5/2 ⁺		787.6 3	1417.9	(7/2)	630.1	5/2 ⁺
623.1	1253.4	5/2 ⁺	630.1	5/2 ⁺		794.4 3	1322.1	(5/2 ⁻)	527.8	3/2 ⁻
628	1156	1/2 ⁺	527.8	3/2 ⁻		818.9 2	818.9	(7/2 ⁺)	0.0	7/2 ⁺
630.0 2	630.1	5/2 ⁺	0.0	7/2 ⁺		947 1	1312.1	(7/2 ⁻)	365.0	5/2 ⁻
681.8 1	818.9	(7/2 ⁺)	137.1	9/2 ⁺						

[†] Value given by 1989PrZX is from either of the two reactions ((d,p γ) or (α ,n γ)) studied in the thesis.

[‡] From Adopted Gammas.

[#] γ from (α ,n γ) only (1989PrZX).

[@] Taken from (α ,n γ) (1979Ze02).

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Level Scheme

