

<sup>62</sup>Ni(d,α), (pol d,α) 1983Na12,1972Se05

Type	Author	History	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	Citation NDS 114, 1849 (2013)	31-Dec-2012

(pol d,α) E(d)=78 MeV. Measured  $\sigma(\theta)$  for  $\theta(\text{c.m.})=8^\circ-48^\circ$ ,  $A_y(\theta)$  for  $\theta(\text{c.m.})=8^\circ-30^\circ$ . Magnetic spectrograph, enriched target (97.9%). FWHM=55 keV (1983Na12). See 1988Na01 from the same group for theoretical analysis.

(d,α) E(d)=15 MeV. Measured  $\sigma(\theta)$  for  $\theta(\text{c.m.})\approx 30^\circ$  to  $110^\circ$ . Enriched target (99%). FWHM $\approx 20-25$  keV (1972Se05).

<sup>60</sup>Co Levels

E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	L <sup>#</sup>	Comments
0.0	5 <sup>+</sup>	4	
57 10		2	
278 10		4	
288 10		(4)	
433 10		(2,6)	
504 10		2	
539 10		2	
612 10	3 <sup>+</sup>	2	
735 10		0+2	
782 10		4	
1004 10		4	
1125 10		(4)	
1210 10	6 <sup>+</sup>	6@	L: (0+2) (1972Se05).
1380 10	6 <sup>+</sup>	6@	L: 3 (1972Se05).
1510 10	7 <sup>+</sup>	6@	
1639 10			
1788 10	4 <sup>+</sup>	4@	
1883 10			
1982 10			
2046 10			
2074 10			
2131 10		(5)	
2221 10			
2280 10	5 <sup>+</sup>	4	
2346 10	5 <sup>+</sup>	4@	
2452 10			
2589 10			
2713 10		3	
2768 10		(3,4)	
2884 10	5 <sup>+</sup>	4@	
3108 10	7 <sup>+</sup>	6@	
3212 10			
3288 10			
3350 10			
3416 10			
3469 10	7 <sup>+</sup>	6@	L: 2 (1972Se05).
3529 10			
3560@ 20	5 <sup>+</sup>	4@	
3674 10	7 <sup>+</sup>	6@	
3780 20	7 <sup>+</sup>	6@	
4040 30	7 <sup>+</sup>	6@	
4280 30		4@	
4550 30	7 <sup>+</sup>	6@	

Continued on next page (footnotes at end of table)

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 ${}^{62}\text{Ni}(\mathbf{d},\alpha)$ , (**pol d, $\alpha$** ) **1983Na12,1972Se05 (continued)**

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 ${}^{60}\text{Co}$  Levels (continued)

<u>E(level)<sup>†</sup></u>	<u>J<math>\pi</math><sup>‡</sup></u>	<u>L<sup>#</sup></u>
4700 30	7 <sup>+</sup>	6 <sup>@</sup>
4800 30	7 <sup>+</sup>	6 <sup>@</sup>

<sup>†</sup> From [1972Se05](#) for E<3.7 MeV, from [1983Na12](#) for E>3.7 MeV.

<sup>‡</sup> From comparison with vector analyzing powers for other nuclei with known properties ([1983Na12](#)).

<sup>#</sup> From [1972Se05](#), except as noted. L-values of [1972Se05](#) are from comparison with DWBA. L-values of [1983Na12](#) are from comparison with  $\sigma(\theta)$  for other nuclei with known properties.

<sup>@</sup> From [1983Na12](#).