

$^{167}\text{Er}(\text{t,p})$ 1985Lo19

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Coral M. Baglin	NDS 109, 2033 (2008)	15-Jun-2008

Target $J^\pi=7/2^+$.

E(t)=15 MeV, isotope separated ^{167}Er (>99% enrichment) embedded in carbon foil; E(t)=17 MeV, metallic Er targets enriched to 95.6% in ^{167}Er ; $\theta=7.5^\circ$ to 67.5° (7.5° intervals); measured E(level) (mag spect, FWHM $\approx$ 15 keV), angular distributions, absolute cross sections; used multistep CCBA calculations to interpret levels.

 ^{169}Er Levels

<u>E(level)</u>	<u>L[†]</u>	<u>Comments</u>
244 [‡] 5	0	7/2 ⁺ 7/2[633] state.
319 [‡] 5		9/2 ⁺ 7/2[633] state (weakly populated).
413 [‡] 5		11/2 ⁺ 7/2[633] state (weakly populated).
525 [‡] 5		13/2 ⁺ 7/2[633] state (weakly populated).
592 5		
848 5	2	
905 5	0	Strength=31, relative to 100 for 244 level.
971 5	(4)	
988 5	(2)	
1056 5		
1085 5		
1113 5		
1137 5	(4)	
1221 5	(2)	
1238 5		
1278 5		
1296 5		
1434 5		
1456 5		
1482 5		
1547 5		
1619 5		
1654 5		
1675 5		
1743 5		
1773 5		
1827 5		
1856 5		
1952 5		
2049 5		
2094 5		
2216 5		
2482 5		

[†] From DWBA analysis of angular distributions.

[‡] Band(A): 7/2[633] band.

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Band(A): 7/2[633] band

525

413

319

244

$^{169}_{68}\text{Er}_{101}$
