## <sup>166</sup>Er(t,p) 1985Bu19

History					
Type	Author	Citation	Literature Cutoff Date		
Full Evaluation	Coral M. Baglin	NDS 111, 1807 (2010)	15-Jun-2010		

E(t)=17 MeV;  $\theta$ =6.5°, 7.5°, 10° to 60° (5° intervals); natural and enriched (96.24% in <sup>166</sup>Er) Er targets; measured E(p) (Q3d mag spect, FWHM≈12,  $\Delta$ E≈1 At low energy to≈5 At 2.5 MeV; Enge split-pole spectrograph, FWHM≈15,  $\Delta$ E≈3 for E≤2 MeV,≈10 At 2.5 MeV),  $\sigma(\theta)$ , differential cross sections; DWBA calculations. see also 1983Da21.

## <sup>168</sup>Er Levels

E(level) <sup>†</sup>	L <sup>‡</sup>	$d\sigma/d\Omega(25^\circ)^{\#}$	Comments
0.0	0	266	
80 1		21	
264 <i>1</i> 548 <i>1</i>		12 2.1	
821 2		3.7	
997 2		12	
1195 2		≈ <b>4</b> .5	
1217 2	0	30	
1275 2		2.7	
1359 <i>3</i>		3.0	
1411	0	5.4	E(level): rounded value from Adopted Levels.
1422	0	21	E(level): rounded value from Adopted Levels.
			$d\sigma/d\Omega(25^{\circ})$ : composite peak consisting of 1411.1, 1422.2, and 1431.5 levels; triplet decomposed by assuming known energies of components and allowing intensities to vary.
1432		14	E(level): rounded value from Adopted Levels.
1449 <i>3</i>		3.5	Ellever). Tourided value from Adopted Levels.
1492 2		4.5	
1573 <i>3</i>		4.7	
1632 <i>3</i>		7	
1654 <i>3</i>		5.4	
1708 3		2.2	
1737 <i>3</i> 1780 <i>3</i>		37 2.6	
1780 <i>3</i> 1794 <i>3</i>		1.4	
≈1834	0	4.9	extracted by 1985Bu19 from complex peak.
1847 <i>3</i>		22	on 1700 But 7 Hom complete peaks
1902 <i>3</i>		@	
1960 <i>3</i>		@	
1981 3		@	
2000 3		@	
2028 4		@	
≈2028 4 ≈2081		≈1.5	
≈2095		<1.5	
2173 4		2.7	
2191 <i>4</i>		3.5	
2227 10		5.3	
2265 5	(0)	16	
2312 <i>10</i> 2341 <i>10</i>		8.0 12	
2341 10		7.4	
2419 <i>10</i>		8.6	
2476 10		15	
2527 5		16	
2562 5		10	
2613 10		@	

## <sup>166</sup>Er(t,p) 1985Bu19 (continued)

## <sup>168</sup>Er Levels (continued)

- † Data are available from experiments At two different laboratories; agreement is excellent. typically, the more precise datum has been adopted here, unless noted to the contrary.
- <sup>‡</sup> DWBA analysis of angular distributions.
- #  $d\sigma/d\Omega$  At  $\theta(lab)=25^{\circ}$  In  $\mu$ b/sr (1985Bu19). @ Peak obscured at 25° by large  $^{12}$ C(t,p) group.