

$^{164}\text{Er}(t,p)$ 1992Bu16

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 109, 1103 (2008)	1-Mar-2008

1992Bu16: ET=17 MeV; 67.2% ^{164}Er enriched target; magnetic spectrometer with photographic plates, FWHM \approx 14 keV; $\theta(\text{lab})=7.5^\circ$ - 67.5° (In 7.5° steps); measured E(p), angular distributions, L transfer; DWBA calculations.

 ^{166}Er Levels

E(level) [†]	L [‡]	d σ /d $\Omega(30^\circ)$ $\mu\text{b}/\text{sr}$ [#]	Comments
0.0 [@]	0	271	
81 [@] 1		21	
265 [@] 1		8	
545		1	E(level): rounded value from Adopted Levels.
786 ^{&} 1		2	
861 ^{&} 2		1	
956 ^{&} 1		10	
1460 ^a 1	0	≤ 45	
1513 ^a 1		6	
1528 3		5	
1669 2		5	
1692 2		1	
1714 2	0	54	
1760 3			
1869 3		4	
1900 3			
1967 3			
2060 3			
2089 3		≤ 6	
2197 3	(0)	12	

[†] From 1992Bu16, except As noted.

[‡] From comparison of measured and calculated $\sigma(\theta)$ (1992Bu16).

[#] Differential cross section At 30° In $\mu\text{b}/\text{sr}$ from 1992Bu16.

[@] Band(A): $K^\pi=0^+$ g.s. band.

[&] Band(B): $K^\pi=2^+$ γ -vibrational band.

^a Band(C): $K^\pi=2^-$ octupole band.

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	Band(C): $K^\pi=2^-$ octupole band
	<u>1513</u>
	<u>1460</u>
	Band(B): $K^\pi=2^+$ γ-vibrational band
	<u>956</u>
	<u>861</u>
	<u>786</u>
Band(A): $K^\pi=0^+$ g.s. band	<u>265</u>
	<u>81</u>
	<u>0.0</u>