^{168}Er(p,t) 1992Bu16,1972Ma37

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

Other: 1973Oo01 (E=19 MeV).

1992Bu16: E(p)=18 MeV; 97.69% ^{168}Er enriched target; magnetic spectrometer with photographic plates, FWHM≈7 keV; θ(lab)=6° and θ=10° *655*° (In 5° steps); measured E(t), angular distributions, L transfer; DWBA calculations.

^{166}Er Levels

E(level)[†]	L[‡]	dσ/dΩ(25°) μb/sr[#]	Comments
0.0[@]	0	630	
81[@] *1*		92	
265[@] *1*		36	
546[@] *1*		3	
786[&] *1*		8	
859[&] *2*		1	
956[&] *1*		4	
1160			E(level): reported by 1972Ma37 only; not ADOPTED.
1458[a] *2*	(0)	≤1	E(level): possible doublet; 0^+ and $(2)^-$ levels are known to exist At approximately this energy.
1514[a] *2*		6	other E: 1505 In 1972Ma37.
1528 *2*		≤1	
1665 *1*		4	
1703 *1*		22	
1713 *1*	0	38	
1762 *2*		1	
1831 *1*		2	
1869 *2*		1	
1905 *2*		3	
1935 *2*	0	21	other E: 1928 In 1972Ma37.
1948			E(level): reported by 1972Ma37 only; not ADOPTED.
1979 *3*		2	
2004 *2*		4	
2025 *2*		4	
2063 *2*		1	
2093 *2*		3	
2159 *2*		2	
2196 *2*	0	17	other E: 2187 In 1972Ma37.
2207 *3*		1	
2245 *3*		2	
2260 *2*		5	
2287 *3*		2	
2302 *3*		2	

[†] From 1992Bu16, except As noted.
[‡] From comparison of measured and calculated $\sigma(\theta)$ (1992Bu16).
[#] Differential cross section At 25° In μb/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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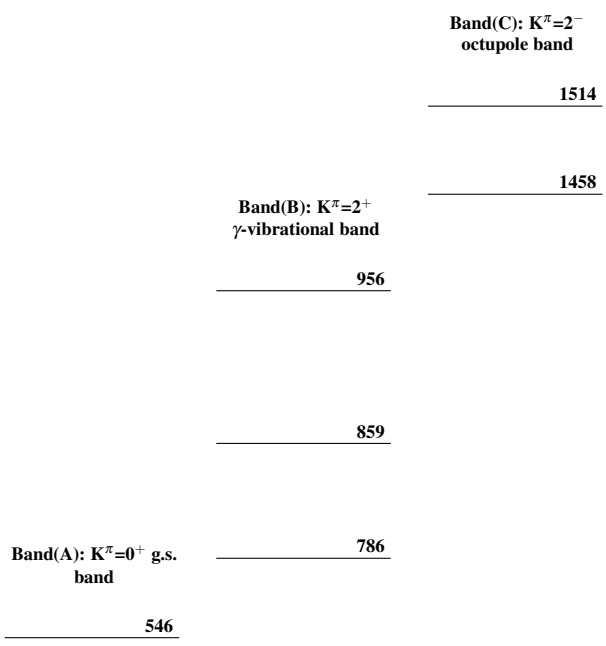

$^{166}_{68}Er_{98}$