

Coulomb excitation

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 103, 1 (2004)	31-Jul-2004

(α, α'): E=11.3 MeV ([1977KI05](#)), 10.8-11.8 MeV ([1989Bu07](#)).

($^{12}\text{C}, ^{12}\text{C}'$): E=35 MeV ([1977KI05](#)), E=30 MeV ([1980Eb01](#)), E=40 MeV ([1985Bu01](#)), E=33-35 MeV ([1989Bu07](#)).

($^{16}\text{O}, ^{16}\text{O}'$): E=48-52.5 MeV ([1977KI05](#)), E=45 MeV ([1980Eb01](#)), E=43-48 MeV ([1989Bu07](#)).

($^{18}\text{O}, ^{18}\text{O}'$): E=52.5 MeV ([1977KI05](#)).

($^{32}\text{S}, ^{32}\text{S}'$): E=72-80 MeV ([1980Br01](#)), E=80 MeV ([1980Eb01](#)).

Others: [1963Al31](#), [1972Ke16](#), [1973ToXW](#), [1974Ne15](#).

 ^{134}Ba Levels

E(level) [†]	J ^{π}	T _{1/2}	Comments
0.0	0 ⁺	stable	
605	2 ⁺	5.12 ps 9	B(E2) $\uparrow$ =0.679 11; g=+0.42 4 Q=-0.26 8 or +0.15 8 (1989Bu07). B(E2): weighted average of 0.672 16 (1972Ke16), 0.700 15 (1977KI05), and 0.665 5 (1989Bu07). Others: 1963Al31 , 1973ToXW ; see 1987Ra01 . g-factor: averaged of 0.43 5 (1980Br01) and 0.41 6 (1980Eb01). Q: from reorientation effect. Alternate values result from unknown sign of interference term. Other measurements: 1972Ke16 , 1973ToXW , 1974Ne15 , 1977KI05 . T _{1/2} : from B(E2).
1168	2 ⁺	2.7 ps 8	B(E2)=0.0065 10 (1977KI05), 0.011 2 (1985Bu01). B(E2)(1168 to 605)=0.207 24 (1977KI05), 0.38 5 (1985Bu01). T _{1/2} : from B(E2) data of 1977KI05 and 1985Bu01 .
1401	4 ⁺	0.83 ps 9	T _{1/2} : from B(E2)(1401 to 605)=0.214 22 (1977KI05).
2070			
2253	3 ⁻		B(E3) $\uparrow$ =0.148 18 (1985Bu01)

[†] From [1985Bu01](#).