

Coulomb excitation 1979Sa05,1977Sa04,1974Ba45

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu		NDS 109, 1655 (2008)	1-Apr-2008

- 1979Sa05: (³He,³He') E=19.52 MeV, (α,α') E=19.3 MeV measured Coulomb-nuclear interference.
 1977Sa04: (α,α') E=8-18 MeV.
 1974Ba45: (α,α') E=10 MeV, (¹⁶O,¹⁶O') E=42 MeV.
 1956Te26: (α,α') E=6.5 MeV.
 1962Ga13: (¹⁴N,¹⁴N') E=53 MeV.
 1965Ro09: (α,α') E=6-9 MeV.
 1967St16: (α,α') E=9-12 MeV, (¹⁶O,¹⁶O') E=37-43 MeV.
 1969He11: (¹⁶O,¹⁶O') E=33-38 MeV, IMPAC.
 1970Ch14: (α,α') E=12-14 MeV.
 1970LaZM: (¹⁴N,¹⁴N') E=40-49 MeV.
 1974La05: (³²S,³²S') E=57.5-65.0 MeV.
 1975KI07: (α,α') E=8.5-17 MeV, (¹⁶O,¹⁶O') E=39-44 MeV.
 1981Sh15: (³²S,³²S') E=80 MeV IMPAC.

¹²⁴Te Levels

E(level)	Jπ [†]	T _{1/2}	Comments
0.0	0 ⁺		
602.7	2 ⁺	6.2 ps 1	B(E2)=0.568 5 (for + sign of interference term), 0.566 5 (for - sign of interference term) (1975KI07). Others: 0.47 4 (1970Ch14); 0.571 11 (for - sign), 0.568 11 (for - sign) (1974Ba45); 0.561 24 (1977Sa04); 0.48 1 (α,α') 0.46 2 (³ He, ³ He') (1979Sa05). Q=-0.41 8 (for + sign) or -0.16 8 (for - sign). Q from 1975KI07; others: -0.49 8 (for + sign), -0.28 8 (for - sign) (1974La05); -0.46 10 (for + sign), -0.11 10 (for - sign) (1974Ba45). g factor=0.26 10 (1981Sh15). T _{1/2} : from B(E2)=0.567 5. B(E2)↑=0.019 5 (1962Ga13) E(level): From 1962Ga13. T _{1/2} : from B(E2).
1325	2 ⁺	0.4 ps 2	B(E3)↑=0.09 3 E(level): From 1979Sa05.
2300	3 ⁻	0.17 ps 6	B(E3) from 1979Sa05; others: <0.15 (1970Ch14), <0.45 (1963Ha20). T _{1/2} : from B(E3) and γ-branching to g.s.=0.0059 2 (adopted γ's).

[†] From Adopted Levels.