

Coulomb excitation 1993Ho12,1995Lu01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 107, 2423 (2006)	1-Jan-2006

1969Ga25: (^{12}C , $^{12}\text{C}'$), (^{14}N , $^{14}\text{N}'$), E=31 MeV to 46 MeV. (α , α'), E=12 MeV.

1993Ho12: $^{94}\text{Zr}(^{32}\text{S}$, $^{32}\text{S}'$), E=105 MeV; stopped the recoiling ^{94}Zr in a plunger at distances ranging from 17 to 760 μm and measured γ -(^{32}S) in coincidence (recoil distance method to measure $T_{1/2}$).

1995Lu01: $^{94}\text{Zr}(\alpha$, α'), E=35.4 MeV; measured $\sigma(\theta)$.

1993Ho02: $^{94}\text{Zr}(^6\text{Li}$, $^6\text{Li}'$), E=70 MeV; measured $\sigma(\theta)$.

2003Du10: $^{94}\text{Zr}(\alpha$, α'), E=35.4 6565 MeV, measured $\sigma(\theta)$.

 ^{94}Zr Levels

E(level) [†]	J^π [†]	$T_{1/2}$ [‡]	Comments
0.0	0^+		
918.75 5	2^+	6.9 ps 15	B(E2) \uparrow =0.066 14 (2001Ra27)
2057.63 10	3^-		B(E3) \uparrow =0.087 20 (1995Lu01)

[†] From Adopted Levels.

[‡] From 1993Ho12.

 $\gamma(^{94}\text{Zr})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.
918.74 5	918.75	2^+	0.0	0^+	E2

Coulomb excitation 1993Ho12,1995Lu01Level Scheme