

Coulomb excitation 2001Ke08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

2001Ke08,2001Ke02: ^{60}Ni beam on a magnetized target consisting of C, Gd, Ta, and Cu layers, E=155, 160 MeV. $^{12}\text{C}(^{60}\text{Ni}, ^{12}\text{C})$, measured $^{12}\text{C}-\gamma(\theta)$, $T_{1/2}$ DSA.

1969Cl05: 28– 38 MeV ^{16}O , 65– 70 MeV ^{32}S : Measured $\sigma(E(\text{HI}), \theta)$, magnetic spectrograph, FWHM at 60° was 65 keV and 160 keV for ^{16}O and ^{32}S respectively, enriched target.

1974Le13: 70 MeV ^{32}S : Measured $\sigma(E\gamma, \theta(^{32}\text{S}), \theta(^{32}\text{S}, \gamma))$.

Others: [1960An07](#) ($^{14}\text{N}, ^{14}\text{N}'$), [1962St02](#) (α, α'), [1973Fi15](#) ($^{35}\text{Cl}, ^{35}\text{Cl}'$), [1978Ha13](#) ($^{32}\text{S}, ^{32}\text{S}'$).

 ^{60}Ni Levels

E(level)	J $^\pi$	T $_{1/2}$	Comments
0			
1332.5 10	2 $^+$	0.91 ps 2	B(E2) \uparrow =0.0928 20 (1969Cl05 , 1974Le13); g=0.16 3 (2001Ke08) B(E2) \uparrow : measurement of 1969Cl05 corrected by 1974Le13 . T $_{1/2}$: from 2001Ke08 . Other: 0.69 ps 5 from DSA measurement of 1973Fi15 .
2158.6 15	2 $^+$		
2505.7 15	4 $^+$	3.3 ps 10	T $_{1/2}$: from 2001Ke08 .

 $\gamma(^{60}\text{Ni})$

E $_\gamma$	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$
826.1	2158.6	2 $^+$	1332.5	2 $^+$
1173.2	2505.7	4 $^+$	1332.5	2 $^+$
1332.5	1332.5	2 $^+$	0	

Coulomb excitation 2001Ke08Level Scheme