**Coulomb excitation** **1988Ku01,1981Ha23,1973Ch13**

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | E. A. Mccutchan and A. A. Sonzogni | NDS 115, 135 (2014) | 1-Nov-2013 |

2012Ku14: C($^{88}$Sr,$^{88}$Sr′$\gamma$), E($^{88}$Sr)=243 to 285 MeV. Measured E$\gamma$, I$\gamma$, C-$\gamma(\theta$,H,t) using four HPGe Clover detectors and a PIPS detector; determined $T_{1/2}$ with Doppler Shift Attenuation Method (DSAM).

1988Ku01: ($^{30}$S,$^{30}$S′$\gamma$), E($^{30}$S)=90 MeV and ($^{32}$S,$^{32}$S′), E($^{32}$S)=100,110 MeV. Measured $\gamma(\theta$,H,t) using four NaI(Tl) detectors in coincidence with an annular Si surface-barrier detector; deduced $T_{1/2}$ through Doppler-shift attenuation method (DSAM) using two Ge(Li) detectors.

1981Ha23: ($^{14}$C,$^{14}$C′), E($^{14}$C)=51 MeV. Measured $\sigma(\theta)$ using Q3D magnetic spectrometer and ionization chamber (FHWM=60-100 keV); DWBA and coupled-channels analysis.

1974Gr16: ($^{22}$Ne,$^{22}$Ne′), E($^{22}$Ne)=49 MeV to 65 MeV. Measured $\sigma(\theta)$ and excitation function using Si detectors; DWBA analysis.

1973Be13: ($^{16}$O,$^{16}$O′), E($^{16}$O)=60 MeV. Measured $\sigma(\theta)$ using Si ΔE-E detector (FWHM=200-400 keV); DWBA analysis.

1973Ch13: ($^{16}$O,$^{16}$O′), E($^{16}$O)=45-60 MeV. Measured $\sigma(\theta)$ and excitation functions using three Si surface-barrier detectors.

## $^{88}$Sr Levels

| E(level)† | J$^{\pi}$# | $T_{1/2}$ | L‡ | $\beta_L$‡ | Comments |
|---|---|---|---|---|---|
| 0 | 0$^+$ | | | | |
| 1.84×10$^3$ | 2$^+$ | 0.152 ps *12* | 2 | 0.11 | B(E2)↑=0.114 *15*; g=+1.22 *11*<br>$\beta_L$: Others: 0.085 from ($^{16}$O,$^{16}$O′) (1973Be13). 0.08 from ($^{22}$Ne,$^{22}$Ne′) (1974Gr16).<br>$T_{1/2}$: weighted average of 0.152 ps *12* (2012Ku14) and 0.152 ps *16* (1988Ku01), both from DSAM. Other: 0.119 ps *16* from B(E2) (1973Ch13).<br>g: from transient field technique (2012Ku14). Other: +1.15 *17* from transient field technique (1988Ku01).<br>B(E2)↑: from 1973Ch13. |
| 2.73×10$^3$ | 3$^-$ | 0.67 ps *3* | 3 | 0.117 | $T_{1/2}$: from DSAM in 2012Ku14. |

† From 1981Ha23.
‡ From DWBA (1981Ha23).
# From the Adopted Levels.