## $^{40}$Ca($^{14}$C,$^{15}$O) 1980Dr09

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | Jun Chen | NDS 149, 1 (2018) | 1-Jan-2018 |

1980Dr09: E=51 MeV $^{14}$C beam was produced from the Los Alamos Van de Graaff accelerator. Target was ≈70 $\mu$g/cm$^2$ natural Ca on ≈20 $\mu$g/cm$^2$ carbon backing. Reaction products were momentum-analyzed with a quadrupole-triple-dipole magnetic spectrometer and detected in a position-sensitive ionization chamber. Measured $\sigma$(E($^{15}$O),$\theta$). Deduced levels, DWBA analysis.

### $^{39}$Ar Levels

| E(level) | J$^\pi$‡ | d$\sigma$/d$\Omega$ (mb/sr)† |
|---|---|---|
| 0 | 7/2$^-$ | 0.25 |
| 1270 | 3/2$^-$ | 0.20 |

† At 10°; estimated from figure 1 of 1980Dr09.
‡ From Adopted Levels.