

${}^9\text{Be}({}^{62}\text{Cr}, {}^{62}\text{Cr}'\gamma)$ 2010Ga06

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|--|---------|---------------------|------------------------|
| Full Evaluation | Alan L. Nichols, Balraj Singh, Jagdish K. Tuli | | NDS 113, 973 (2012) | 15-Apr-2012 |

Inelastic scattering:

Secondary beam produced in the reaction ${}^9\text{Be}({}^{76}\text{Ge}, X)$ with a 130 MeV/nucleon beam provided by the NSCL at MSU. A1900 fragment separator, S800 spectrograph. $E({}^{62}\text{Cr})=74.6$ MeV/nucleon. Measured $E\gamma$, $I\gamma$, $({}^{62}\text{Cr})\gamma$ coin using SeGA array of 32-fold segmented HPGe detectors. Comparison with shell-model calculations.

 ${}^{62}\text{Cr}$ Levels

| E(level) | J^π |
|----------|-----------------|
| 0 | 0^+ |
| 440 7 | $(2^+)^\dagger$ |
| 1165 11 | $(4^+)^\dagger$ |

† From systematics of even-even nuclides.

 $\gamma({}^{62}\text{Cr})$

| E_γ | $E_i(\text{level})$ | J_i^π | E_f | J_f^π |
|------------|---------------------|-----------|-------|-----------|
| 440 7 | 440 | (2^+) | 0 | 0^+ |
| 725 9 | 1165 | (4^+) | 440 | (2^+) |

 ${}^9\text{Be}({}^{62}\text{Cr}, {}^{62}\text{Cr}'\gamma)$ 2010Ga06Level Scheme