## $^{2}H(^{36}S,^{37}Cl\gamma)$ 2001Gu10

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | John Cameron, Jun Chen and Balraj Singh, Ninel Nica | NDS 113, 365 (2012) | 15-Jan-2012 |

2001Gu10: E=79.2 MeV $^{36}S$ beam produced from the MPI-K tandem accelerator. Targets of deuterium-enriched polythene (99% $CD_2$). Two six-fold segmented MINIBALL germanium modules for detecting $\gamma$-rays. Measured E$\gamma$, I$\gamma$, p$\gamma$-coin. Deduced levels.

### $^{37}$Cl Levels

| E(level)† | J$^\pi$‡ |
|---|---|
| 0 | 3/2$^+$ |
| 1727 *3* | |
| 3101 *5* | 7/2$^-$ |
| 3748 *10* | 5/2$^-$ |

† From a least-square fit to E$\gamma$'s.
‡ From Adopted Levels.

### $\gamma(^{37}Cl)$

| E$_\gamma$ | I$_\gamma$ | E$_i$(level) | J$_i^\pi$ | E$_f$ | J$_f^\pi$ |
|---|---|---|---|---|---|
| 1727 *3* | 56 | 1727 | | 0 | 3/2$^+$ |
| 3101 *5* | 100 | 3101 | 7/2$^-$ | 0 | 3/2$^+$ |
| 3748 *10* | 9.3 | 3748 | 5/2$^-$ | 0 | 3/2$^+$ |

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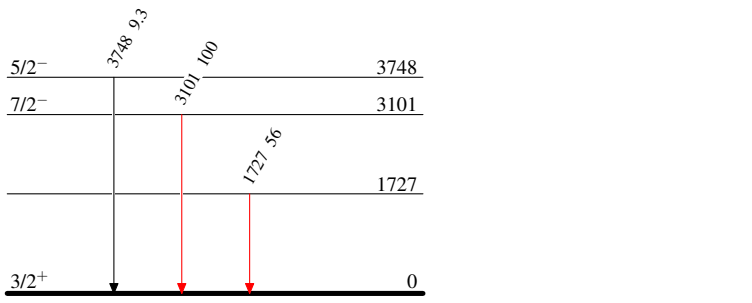
Level Scheme

Intensities: Relative I$_\gamma$




$^{37}_{17}Cl_{20}$