## $^{238}U(^{70}Zn,X\gamma)$ 2008Va08

History

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

Additional information 1.

E=460 MeV beam provided by LNL Tandem-ALPI accelerator. Detected charged particles with PRISMA magnetic spectrometer. Measured E$\gamma$, I$\gamma$, $\gamma\gamma$-coin using CLARA array of 22 Clover Ge detectors with Compton-suppression.

### $^{60}$Mn Levels

| E(level) | $J^\pi$ |
|---|---|
| 0 | $1^+$ |
| 349.1? *4* | $(2^+)$ |

### $\gamma(^{60}Mn)$

| $E_\gamma$ | $I_\gamma$ | $E_i$(level) | $J_i^\pi$ | $E_f$ | $J_f^\pi$ | Comments |
|---|---|---|---|---|---|---|
| [x]129.6 *2* | 89 *45* | | | | | |
| [x]250.3 *2* | 100 *23* | | | | | |
| 349.1[†] *4* | 43 *15* | 349.1? | $(2^+)$ | 0 | $1^+$ | $E_\gamma$: possible placement as in 2006Li15. |
| [x]455.2 *4* | 67 *22* | | | | | |
| [x]463.0 *3* | 70 *22* | | | | | |
| [x]567.7 *4* | 96 *15* | | | | | |

[†] Placement of transition in the level scheme is uncertain.
[x] $\gamma$ ray not placed in level scheme.

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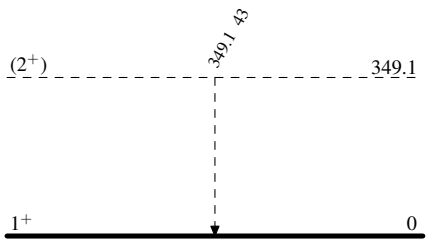
Level Scheme

Intensities: Relative $I_\gamma$




$^{60}_{25}Mn_{35}$