## (HI,xnγ)    **1987ClZY**

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | K. Kitao | NDS 75,99 (1995) | 1-Feb-1993 |

1987ClZY: $^{74}\text{Ge}(^{48}\text{Ca},4n\gamma)$ E=200 MeV, Compton suppressed Ge array, BGO; $\gamma$, $\gamma\gamma$ coin, $\gamma\gamma(\theta)$.
Other: 1978SiZO: $^{82}\text{Se}(^{40}\text{Ar},4n\gamma)$.
The level scheme is that proposed by 1987ClZY.

### $^{118}$Te Levels

| E(level)[†] | $J^{\pi}$[‡] | E(level)[†] | $J^{\pi}$[‡] | E(level)[†] | E(level)[†] |
|---|---|---|---|---|---|
| 0.0 | $0^+$ | 4170 | $11^{\#}$ | 6716 | 9028? |
| 605 | $2^+$ | 4220 | | 6743? | 9536? |
| 1206 | $4^+$ | 4946 | $13^{\#}$ | 7615? | 9924? |
| 1820 | $6^+$ | 4965 | | 7862? | 10538? |
| 2573 | $8^+$ | $5347^{@}$ | | 8049? | 11851? |
| 3360 | $10^+$ | 5545 | | 8423? | |
| 3445 | $9^{\#}$ | 5601 | | 8907? | |

[†] From 1987ClZY.
[‡] Given by 1987ClZY.
[#] These spin assignments were different from those from $(\alpha,2n\gamma)$ based on stretched E2 character for $812\gamma$ and $872\gamma$.
[@] 5342 in authors' drawing appears to be a misprint.
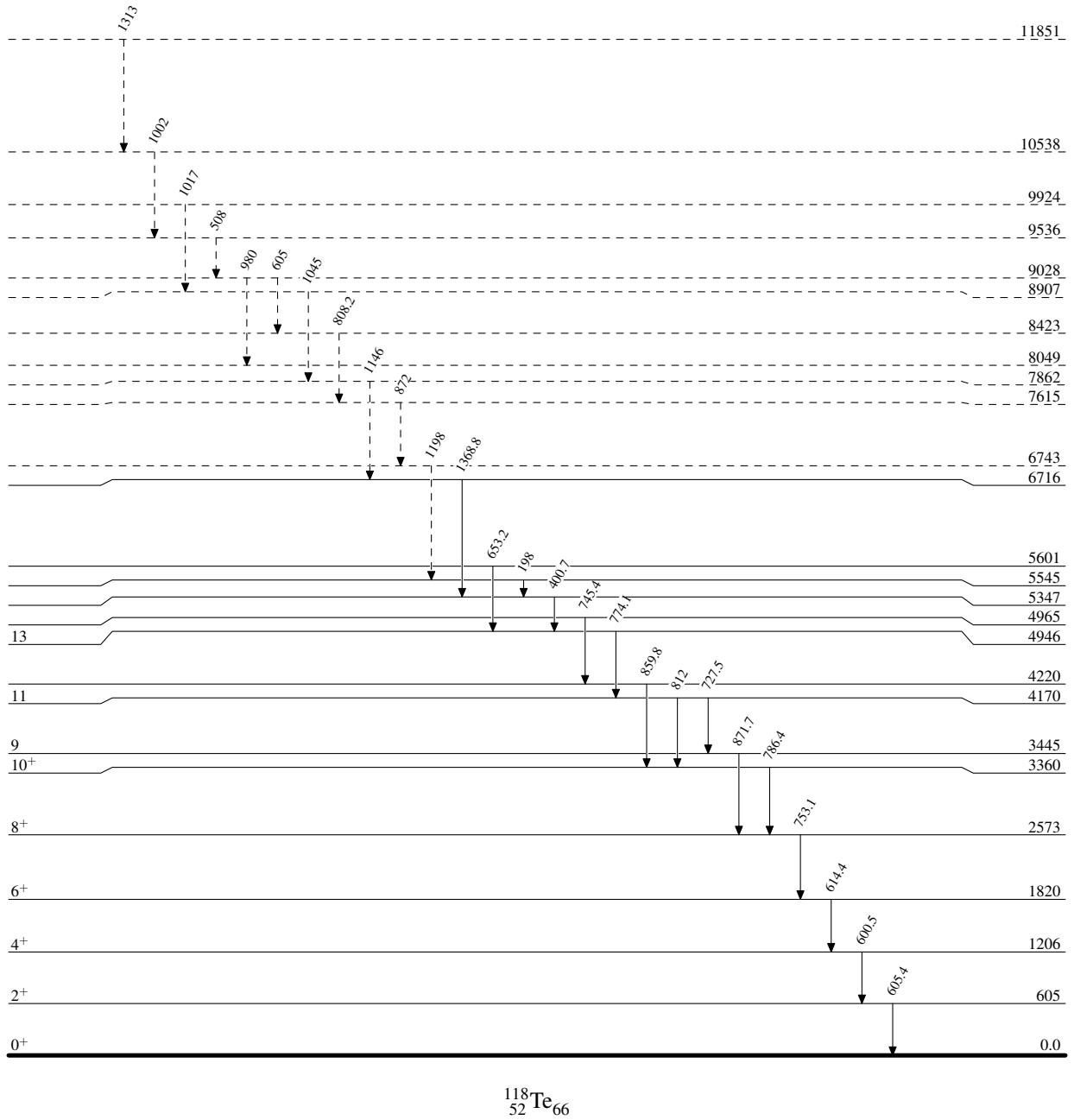
### $\gamma(^{118}\text{Te})$

| $E_{\gamma}$[†] | $E_i$(level) | $J_i^{\pi}$ | $E_f$ | $J_f^{\pi}$ | $E_{\gamma}$[†] | $E_i$(level) | $J_i^{\pi}$ | $E_f$ | $J_f^{\pi}$ |
|---|---|---|---|---|---|---|---|---|---|
| 198 | 5545 | | 5347 | | $808.2^{‡}$ | 8423? | | 7615? | |
| 400.7 | 5347 | | 4946 | 13 | 812 | 4170 | 11 | 3360 | $10^+$ |
| $508^{‡}$ | 9536? | | 9028? | | 859.8 | 4220 | | 3360 | $10^+$ |
| 600.5 | 1206 | $4^+$ | 605 | $2^+$ | 871.7 | 3445 | 9 | 2573 | $8^+$ |
| $605^{‡}$ | 9028? | | 8423? | | $872^{‡}$ | 7615? | | 6743? | |
| 605.4 | 605 | $2^+$ | 0.0 | $0^+$ | $980^{‡}$ | 9028? | | 8049? | |
| 614.4 | 1820 | $6^+$ | 1206 | $4^+$ | $1002^{‡}$ | 10538? | | 9536? | |
| 653.2 | 5601 | | 4946 | 13 | $1017^{‡}$ | 9924? | | 8907? | |
| 727.5 | 4170 | 11 | 3445 | 9 | $1045^{‡}$ | 8907? | | 7862? | |
| 745.4 | 4965 | | 4220 | | $1146^{‡}$ | 7862? | | 6716 | |
| 753.1 | 2573 | $8^+$ | 1820 | $6^+$ | $1198^{‡}$ | 6743? | | 5545 | |
| 774.1 | 4946 | 13 | 4170 | 11 | $1313^{‡}$ | 11851? | | 10538? | |
| 786.4 | 3360 | $10^+$ | 2573 | $8^+$ | 1368.8 | 6716 | | 5347 | |

[†] From 1987ClZY. No intensity was given by authors.
[‡] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

- - - - - - ►  γ Decay (Uncertain)



$^{118}_{52}Te_{66}$