

$^{70}\text{Ge}(\alpha,\gamma)$  1996Fu11

| Type            | Author                          | History | Citation             | Literature Cutoff Date |
|-----------------|---------------------------------|---------|----------------------|------------------------|
| Full Evaluation | Balraj Singh, Ameenah R. Farhan |         | NDS 107, 1923 (2006) | 30-Apr-2006            |

E=5.05-7.8 MeV. Measured  $E_\gamma$ ,  $I_\gamma$ ,  $\gamma\gamma$ -coin and  $\sigma(E)$ .

Other: 1993Zi01, E=12-20 MeV, measured  $E_\gamma$ ,  $I_\gamma$  and deduced average (E2) transition strength.

 $^{74}\text{Se}$  Levels

The level scheme given by 1996Fu11 seems to have been adopted 1995 Nuclear Data Sheets for  $\alpha=74$  or from ENSDF database.

| <u>E(level)</u> | <u><math>J^\pi</math>†</u> |
|-----------------|----------------------------|
| 0.0             | $0^+$                      |
| 634.8           | $2^+$                      |
| 853.8           | $0^+$                      |
| 1268.9          | $2^+$                      |
| 1363.2          | $4^+$                      |
| 1657.6          | $(0^+)$                    |
| 1838.7          | $(2^+)$                    |

† From 'Adopted Levels'.

 $\gamma(^{74}\text{Se})$ 

| <u><math>E_i(\text{level})</math></u> | <u><math>J_i^\pi</math></u> | <u><math>E_\gamma</math></u> | <u><math>I_\gamma</math></u> | <u><math>E_f</math></u> | <u><math>J_f^\pi</math></u> |
|---------------------------------------|-----------------------------|------------------------------|------------------------------|-------------------------|-----------------------------|
| 853.8                                 | $0^+$                       | 219                          |                              | 634.8                   | $2^+$                       |
|                                       |                             | 854                          |                              | 0.0                     | $0^+$                       |
| 1268.9                                | $2^+$                       | 634.3                        | 66                           | 634.8                   | $2^+$                       |
|                                       |                             | 1268.9                       | 34                           | 0.0                     | $0^+$                       |
| 1363.2                                | $4^+$                       | 728.3                        |                              | 634.8                   | $2^+$                       |
| 1657.6                                | $(0^+)$                     | 1022.8                       |                              | 634.8                   | $2^+$                       |
| 1838.7                                | $(2^+)$                     | 984.9                        | 88                           | 853.8                   | $0^+$                       |
|                                       |                             | 1204.0                       | 12                           | 634.8                   | $2^+$                       |

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## Level Scheme

Intensities: % photon branching from each level

