

$^{95}\text{Mo}(t,p)$ 2008Ra13

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|---------|---------------------|------------------------|
| Full Evaluation | N. Nica | NDS 111, 525 (2010) | 19-Nov-2009 |

 ^{95}Mo J^π : $5/2^+$.

2008Ra13: $E=12$ MeV, using 97.35%-enriched thin target and multichannel magnetic spectrograph. Measured P spectra At 12 angles from 5° to 87.5° In steps of 7.5° ; used nuclear emulsion plates for detection. Did DWBA calculations to determine L and J^π values respectively. Measured absolute $d\sigma/d\Omega$ the maxima of which are given In the table.

 ^{97}Mo Levels

| E(level) [†] | J^π [‡] | L [†] | $(d\sigma/d\Omega)_{\text{max}}$ (mb/sr) [†] |
|-----------------------|----------------------------|----------------|---|
| 0.0 | $5/2^+$ | 0 | 0.810 |
| 275 1 | | | |
| 320 1 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.017 |
| 373 8 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.016 |
| 478 3 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.028 |
| 528 5 | $5/2^+$ | 0 | 0.033 |
| 576 4 | $(1/2 \text{ to } 11/2)^-$ | 3 | 0.008 |
| 662 4 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.006 |
| 680 3 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.047 |
| 720 3 | $5/2^+$ | 0 | 0.093 |
| 787 5 | $(1/2 \text{ to } 11/2)^-$ | 3 | 0.015 |
| 824 4 | $5/2^+$ | 0 | |
| 887 1 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.008 |
| 1004 1 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.049 |
| 1025 2 | $5/2^+$ | 0 | 0.042 |
| 1088 1 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.015 |
| 1112 2 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.017 |
| 1133 4 | | | |
| 1222 3 | $5/2^+$ | 0 | 0.0142 |
| 1268 5 | $(3/2 \text{ to } 7/2)^-$ | 1 | 0.051 |
| 1341 6 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.014 |
| 1434 3 | $(1/2 \text{ to } 11/2)^-$ | 3 | 0.018 |
| 1550 8 | $5/2^+$ | 0 | 0.050 |
| 1621 2 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.049 |
| 1723 5 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.038 |
| 1871 8 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.014 |
| 1953 5 | $5/2^+$ | 0 | 0.031 |
| 2042 1 | $(3/2 \text{ to } 7/2)^-$ | 1 | 0.032 |
| 2061 1 | | | |
| 2148 4 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.037 |
| 2220 6 | $(1/2 \text{ to } 11/2)^-$ | 3 | 0.009 |
| 2315 2 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.041 |
| 2362 4 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.035 |
| 2420 7 | $(1/2 \text{ to } 11/2)^-$ | 3 | 0.023 |
| 2492 2 | $5/2^+$ | 0 | 0.019 |
| 2517 5 | | | |
| 2610 3 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.008 |
| 2653 5 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.050 |
| 2771 9 | $(1/2 \text{ to } 9/2)^+$ | 2 | 0.018 |
| 2791 7 | $5/2^+$ | 0 | 0.019 |
| 2859 4 | $5/2^+$ | 0 | 0.046 |
| 2896 4 | $5/2^+$ | 0 | 0.044 |
| 2925 1 | $(1/2 \text{ to } 11/2)^-$ | 3 | 0.011 |
| 2976 4 | $(3/2 \text{ to } 13/2)^+$ | 4 | 0.025 |
| 3020 1 | $(3/2 \text{ to } 7/2)^-$ | 1 | 0.019 |

Continued on next page (footnotes at end of table)

 $^{95}\text{Mo}(t,p)$ **2008Ra13** (continued) ^{97}Mo Levels (continued)

| <u>E(level)[†]</u> | <u>J^π[‡]</u> | <u>L[†]</u> | <u>(dσ/dΩ)_{max} (mb/sr)[†]</u> |
|-----------------------------|----------------------------------|----------------------|--|
| 3076 1 | (3/2 to 7/2) ⁻ | 1 | 0.040 |
| 3124 4 | | | |
| 3189 6 | (1/2 to 11/2) ⁻ | 3 | 0.006 |

[†] From [2008Ra13](#).

[‡] From [2008Ra13](#) based on measured L values (can Be different from those In Adopted Levels, Gammas dataset).