## $^{94}$Mo(n,$\gamma$):resonances    2007Sh46

### History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | S. K. Basu, G. Mukherjee, A. A. Sonzogni | NDS 111, 2555 (2010) | 30-Jun-2009 |

Fast Neutron beam, time-of-flight method.

Measured E$\gamma$, I$\gamma$ with DANCE detector array of 160 BaF$_2$ scintillation detectors at LANSCE facility. Deduced multiplicity and spin-parities.

### $^{95}$Mo Levels

<M>=average multiplicity, values are from 2007Sh46.

| E(level)[†] | J$^{\pi}$[#] | Comments |
|---|---|---|
| S(n)+0.1088 | ($^-$) | <M>=3.11 *1*. |
| S(n)+0.2785 | 1/2$^+$ | E(level): possibly new resonance from 2007Sh46. |
|  |  | <M>=3.22 *1*. |
| S(n)+1.051 |  | <M>=3.00 *1*. |
| S(n)+1.542 | 1/2$^+$ | <M>=3.21 *1*. |
| S(n)+1.660 |  | <M>=3.01 *3*. |
| S(n)+2.178 |  | <M>=2.98 *2*. |
| S(n)+3.163 |  | <M>=2.97 *1*. |
| S(n)+3.573[‡] |  |  |
| S(n)+3.599 | 1/2$^+$ | <M>=3.17 *1*. |
| S(n)+4.368 | ($^-$) | <M>=2.69 *1*. |
| S(n)+4.622 | 1/2$^+$ | <M>=3.24 *1*. |
| S(n)+4.928 |  | <M>=2.89 *1*. |
| S(n)+5.132 |  | <M>=2.89 *1*. |
| S(n)+5.428 | ($^+$) | <M>=3.04 *1*. |
| S(n)+5.454[‡] |  |  |
| S(n)+5.934 |  | <M>=2.90 *2*. |
| S(n)+6.407 |  | <M>=3.10 *3*. |
| S(n)+6.718 | 1/2$^+$ | <M>=3.25 *2*. |
| S(n)+6.960 |  | <M>=2.93 *3*. |
| S(n)+7.128 |  | E(level): resonance not found by 2007Sh46. |
| S(n)+7.865 | 1/2$^+$ | <M>=3.25 *2*. |
| S(n)+8.275 |  | <M>=3.05 *2*. |
| S(n)+8.608 |  | <M>=2.96 *1*. |
| S(n)+8.660[‡] |  |  |
| S(n)+9.590 |  | <M>=3.07 *2*. |
| S(n)+9.705[‡] |  |  |
| S(n)+9.813 |  | <M>=3.10 *2*. |
| S(n)+10.225 |  | <M>=3.04 *2*. |

[†] Resonance energies are from 2006MuZX unless otherwise stated. S(N)=7369.10 *10* (2003Au03).

[‡] Unresolved.

[#] From 2007Sh46.