

$^{92}\text{Mo}(n,\gamma)$  E=thermal 1991Is05,2007ChZX

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010

$\sigma_n=0.08$  2 (2006MuZX); %Abundance( $^{92}\text{Mo}$ )=14.5246 15 (2007Wi07).

1991Is05: Natural Mo target, pair spectrometer; measured  $E_\gamma$ , absolute  $I_\gamma$  for three primary  $\gamma$  rays; determined S(n).

2007ChZX: includes measurements of  $E_\gamma$  and absolute  $I_\gamma$  (designated As 'Budapest data' here) for 2 secondary and one primary transition.

 $^{93}\text{Mo}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>	Comments
0	$5/2^+$	
943.83 12	$1/2^+$	
1491.87 19	$3/2^+$	
(8069.59 13)	$1/2^+$	$J^\pi$ : s-wave N-capture state(S).

<sup>†</sup> From least-squares fit to  $E_\gamma$ .

<sup>‡</sup> From Adopted Levels, except As noted.

 $\gamma(^{93}\text{Mo})$ 

$E_\gamma$	$I_\gamma$ <sup>†‡</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Comments
943.81 12	65 8	943.83	$1/2^+$	0	$5/2^+$	$E_\gamma, I_\gamma$ : from 2007ChZX.
1492.3 3	37 9	1491.87	$3/2^+$	0	$5/2^+$	$E_\gamma, I_\gamma$ : from 2007ChZX.
6577.67 20	14.8 15	(8069.59)	$1/2^+$	1491.87	$3/2^+$	$E_\gamma, I_\gamma$ : from 1991Is05.
7125.2 6	48 3	(8069.59)	$1/2^+$	943.83	$1/2^+$	$E_\gamma$ : from 2007ChZX. other $E_\gamma$ : 7126.18 7 (1991Is05) does not fit placement well.
8069.13 14	6.6 9	(8069.59)	$1/2^+$	0	$5/2^+$	$I_\gamma$ : from 1991Is05. other: $I_\gamma=28$ 5 (2007ChZX). $E_\gamma, I_\gamma$ : from 1991Is05.

<sup>†</sup> Uncertainty does not include the 25% uncertainty in  $\sigma_\gamma$  for  $^{92}\text{Mo}$ .

<sup>‡</sup> Intensity per 100 neutron captures.

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## Level Scheme

Intensities:  $I_\gamma$  per 100 neutron captures

## Legend

- $\longrightarrow$   $I_\gamma < 2\% \times I_\gamma^{max}$
- $\longrightarrow$   $I_\gamma < 10\% \times I_\gamma^{max}$
- $\longrightarrow$   $I_\gamma > 10\% \times I_\gamma^{max}$

