

$^{92}\text{Mo}(\gamma, \text{xn}), (\gamma, \text{pn})$  [1974Be33, 2010Er01](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)	15-Sep-2012

Others: [1975Be60](#), [1977Be11](#).

[2010Er01](#): bremsstrahlung from 14 MeV/c electrons striking solid graphite beam dump, 13.9 MeV endpoint energy; natural Mo targets; pneumatic transfer of photoactivated targets to Pb castle; HPGe detector in low-background area to detect induced  $\gamma$  decay; measured  $\sigma(E)$ .

[1974Be33](#):  $E_{\gamma} = \text{threshold} - 29.5$  MeV, quasi-monochromatic photons. Measured  $\sigma(\gamma, n) + \sigma(\gamma, \text{pn})$  and  $\sigma(\gamma, 2n)$ . Deduced  $E = 16.9$  MeV,  $\Gamma = 5.4$  MeV for GDR based on single line Lorentz fit to data. See also [1975Be60](#), [1977Be11](#). Fit reevaluated in [1977Be11](#) and [1975Be60](#), giving  $E = 16.65$  MeV ([1977Be11](#)) and  $\Gamma = 4.14$  MeV ([1975Be60](#)), which evaluator adopts.

 $^{92}\text{Mo}$  Levels

$E(\alpha), T_{1/2}(\alpha)$  energy and  $\Gamma$  are from [1977Be11](#); reevaluation of results from [1974Be33](#).

E(level)	$J^{\pi}$	$\Gamma$	Comments
$16.65 \times 10^3$	$1^{-}$	4.14 MeV	$J^{\pi}$ : GDR.