

Coulomb excitation [2001Ma17](#),[1971WaZP](#),[1964St04](#)

Type	Author	History
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)
		Citation
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Additional information 1.Other: [1962Af02](#). $^{92}\text{Mo}(x,x'\gamma)$: B(E2) \uparrow for first 2^+ level at 1509 keV.

*data from [1971WaZP](#) for 5 Mo isotopes are consistently high cf. the most precise data from other authors; consequently, in the evaluation by [1987Ra01](#), data from [1971WaZP](#) were renormalized so B(E2) for ^{100}Mo equaled the value adopted in [1987Ra01](#) (with data of [1971WaZP](#) excluded). The renormalized ^{92}Mo datum from [1971WaZP](#) is then B(E2)=0.107 6 ([1987Ra01](#)).

$^{92}\text{Mo}(^{32}\text{S},^{32}\text{S}'\gamma)$: E($^{32}\text{S}^{8+}$)=100 MeV; ^{nat}Mo target sandwiched between Fe and Cu foils; 4 HPGe detectors ($\pm 65^\circ$, $\pm 115^\circ$); annular Si detector for ^{32}S detection; Fe foil polarized by 0.08 Tesla external field; measured particle- γ angular correlation; deduced g(1509 level). shell-model calculations of g-factor.

x	E(x)	B(E2)	
^{4}He	8 MeV	0.113*	6 1971WaZP
0	38-40 MeV	0.093 14	1964St04
^{14}N	40 MeV	0.19 8	1962Af02 scin E γ =1520 30

 ^{92}Mo Levels

E(level)	J $^\pi$	T $_{1/2}$	Comments
0 1520 30	0 $^+$ 2 $^+$	0.344 ps 20	B(E2) \uparrow =0.105 6 B(E2) is weighted average of data from 1971WaZP (after revision by 1987Ra01) and 1964St04 . E(level): from E γ . T $_{1/2}$: from B(E2)=0.105 6 and adopted E γ . g-factor=+1.3 5 (2001Ma17).

 $\gamma(^{92}\text{Mo})$

E γ	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	Comments
1520 30	1520	2 $^+$	0	0 $^+$	E γ : from 1962Af02 .

Coulomb excitation 2001Ma17,1971WaZP,1964St04Level Scheme