
$^{60}\text{Ni}(\gamma, \gamma')$ **[1970Me18](#),[1970Me08](#)**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

$E\gamma < 4.5$ MeV. Measured $\sigma(e, e'\gamma)$, $\theta = 98^\circ$ and 127° , semi. Nuclear resonance fluorescence ([1970Me18](#)).

$E\gamma = 1332$ keV. Measured resonance fluorescence, scin ([1970Me08](#)).

For the giant dipole resonance, see [1982Bo09](#), [1981Bo35](#), [1978Bo27](#).

All data are from [1970Me18](#), except as noted.

^{60}Ni Levels

E(level) [†]	J ^π [†]	T _{1/2} [‡]	Comments
0.0	0 ⁺		
1332	2 ⁺	0.715 ps 16	T _{1/2} : $\Gamma = 0.638 \times 10^{-3}$ eV 14 from $\Gamma(0)^2/\Gamma = 0.638 \times 10^{-3}$ eV 14 (1970Me08). B(E2)↑: 0.0938 20 (1970Me08).
3124	2 ⁺	>23 fs	T _{1/2} : $\Gamma = 8 \times 10^{-3}$ eV 12 from $\Gamma(0)^2/\Gamma = 0.07 \times 10^{-3}$ eV 10 (1970Me18).
3194	1 ⁺	19 fs 7	T _{1/2} : $\Gamma = 24 \times 10^{-3}$ eV 8 from $\Gamma(0)^2/\Gamma = 0.63 \times 10^{-3}$ eV 20 (1970Me18).
3269	2 ⁺	>22 fs	T _{1/2} : $\Gamma < 21 \times 10^{-3}$ eV from $\Gamma(0)^2/\Gamma < 0.5 \times 10^{-3}$ eV (1970Me18).
4008	2 ⁺	21 fs 7	J ^π : J=2 from ratio of resonantly scattered γ rays at 98° and 127° . T _{1/2} : $\Gamma = 22 \times 10^{-3}$ eV 7 from $\Gamma(0)^2/\Gamma = 3.2 \times 10^{-3}$ eV 5 (1970Me18).
4020	1 ⁺	12 fs 3	J ^π : J=1 from ratio of resonantly scattered γ rays at 98° and 127° . T _{1/2} : $\Gamma = 37 \times 10^{-3}$ eV 9 from $\Gamma(0)^2/\Gamma = 11.1 \times 10^{-3}$ eV 15 (1970Me18).

[†] From Adopted Levels.

[‡] From Γ . Includes uncertainty in branching; adopted branching ratios were used to calculate total Γ .