^{88}Sr(p,γ) IAR 1968Sh03,1983Na15,1972PaYW

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 114, 1 (2013)	20-Oct-2012

Includes (pol p,γ):GDR.

1968Sh03: E=5.85 to 8.4 MeV. Measured γ spectra, area analysis of excitation function at 90°, deduced $(2J+1)(\Gamma_p)(\Gamma_{\gamma 0})/\Gamma$.

1983Na15: E=5.0 to 8 MeV. Measured γ spectra at θ=90°, Breit-Wigner analysis of $\sigma(E\gamma)$, determined Γ_γ to the 1507 state and the 1744 state.

1972PaYW: E=5.6 to 6.4 MeV. Measured excitation functions, Breit-Wigner analysis, determined $\Gamma_{\gamma 0}$.

1969Ri08: E=5.064 MeV. Measured excitation functions, determined Γ_γ to the 1507 state and the 1744 state.

1977LeZW: (pol p,γ) E=5-27 MeV. Measured $\sigma(\theta)$ of GDR in ^{89}Y.

1978We07: (pol p,γ) E<14 MeV. Measured $\sigma(\theta)$, Ay(θ) of GDR.

^{89}Y Levels

E(level)[†]	J^π	E(p)(c.m.) (keV)	Comments
12076 *15*	$5/2^+$	4999 *15*	Γ_γ(to 1507)=8 eV *2* (1972PaYW). Γ_γ(1745)=3.5 eV *10* (1972PaYW), 4 eV *3* (1969Ri08). Γ_γ(to g.s.)=7 eV *2* (1969Ri08).
13070 *15*	$(1/2^+)$	5993 *15*	$\Gamma_{\gamma 0}$=16 eV *3* $\Gamma_{\gamma 0}$: Weighted average of 18 eV *3* (1972PaYW) and 11 eV *4* determined from $(2J+1)\times\Gamma_p\times\Gamma_{\gamma 0}/\Gamma$=14 eV *5* (1968Sh03), with Γ, Γ_p taken from 1968Co02 in (p,p′).
14060 *15*	$3/2^+$	6983 *15*	$\Gamma_{\gamma 0}$=7 eV *3* $\Gamma_{\gamma 0}$: Determined from $(2J+1)\times\Gamma_p\times\Gamma_{\gamma 0}/\Gamma$=17 eV *6* (1968Sh03), with Γ, Γ_p taken from 1968Co02 in (p,p′). The 6914 and the 6983 resonances are not resolved, and from J^π and RUL it is concluded that a contribution from the 6914 resonance is negligible.
14492 *15*	$3/2^+$	7415 *15*	$\Gamma_{\gamma 0}$=11.3 eV *19* $\Gamma_{\gamma 0}$: Weighted average of 11 eV *2* (1972PaYW) and 14 eV *5* determined from $(2J+1)\times\Gamma_p\times\Gamma_{\gamma 0}/\Gamma$=17 eV *6* (1968Sh03), with Γ, Γ_p taken from 1968Co02 in (p,p′). Γ_γ(to 1745 level)≤2 eV (1972PaYW).
15837 *15*	$(1/2^+)$	8760 *15*	$\Gamma_{\gamma 0}$=40 eV *8* (1972PaYW)

[†] Center of mass energies from (p,p′), S(p)=7077.2 *25* (2011AuZZ).