

$^{62}\text{Ni}(\text{p,p}), (\text{p,p}'), (\text{p,n})$ IAR [1976Ar01](#), [1970Br33](#), [1966Bo26](#)

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Yang Dong, Huo Meirong,	ENSDF	28-Aug-2008

(p,p) [1976Ar01](#) E=3.4-4.0 MeV, FWHM=0.4 keV for the beam energy.

(p,p), (p,p') [1974Ra07](#) E=2.5-5.0 MeV, FWHM=2 keV.

(p,p), (p,n) [1970Br33](#) E≈2.3-3.1 MeV, FWHM=0.3-0.45 keV.

[1966Bo26](#) E≤8 MeV, FWHM(p)≈10 keV; FWHM(n)≈100 keV.

Others: [1974Wi15](#) (see (p,γ) data set for IAR data from (p,p) reaction).

 ^{63}Cu Levels

E(level) [†]	J ^π [‡]	L [‡]	S [#]	Comments
0.0				
8566	1/2 ⁻	1		E(p)(lab)=2484, IAS(g.s. ^{63}Ni) (1970Br33); $\Gamma_p=0.8$, $\Gamma_{p'}(\text{to } 1172)=0.002$, S=0.39 (1974Ra07).
8735	3/2 ⁻	1		E(p)(lab)=2655, IAS(156 ^{63}Ni) (1970Br33); $\Gamma_p=0.4$, $\Gamma_{p'}(\text{to } 1172)=0.020$, S=0.11 (1974Ra07).
9119	3/2 ⁻	1	0.067	E(p)(lab)=3045 in 1970Br33 , 3051 in 1976Ar01 ; IAS(518 ^{63}Ni); $\Gamma_p=0.6$, $\Gamma_{p'}(\text{to } 1172)=0.054$, S=0.07 (1974Ra07).
9584	1/2 ⁻	1	0.215	E(p)(lab)=3517, IAS(1001 ^{63}Ni) (1976Ar01); $\Gamma_p=2.2$, $\Gamma_{p'}(\text{to } 1172)=0.056$, S=0.10 (1974Ra07).
9849	9/2 ⁺			E(p)(lab)=3787, IAS(1292 ^{63}Ni) from 1972Sz01 (p,γ), but not confirmed by 1976Ar01 .
9865	(3/2) ⁻	1	0.0050	E(p)(lab)=3803, IAS(1324 ^{63}Ni) (1976Ar01).
10860	5/2 ⁺			E(level): estimated by the evaluator.
				IAS(2294 ^{63}Ni); $\Gamma_p=8.3$, $\Gamma_{p'}(\text{to } 1172)=1.45$, $\Gamma_{p'}(\text{to } 2047)=0.026$, S=0.14 (1974Ra07).
11029				E(p)(lab)=4986, IAS(2529 ^{63}Ni) (1966Bo26).
11227				E(p)(lab)=5187, IAS(2701 ^{63}Ni) (1966Bo26).
11326				E(p)(lab)=5288, IAS(2824 ^{63}Ni) (1966Bo26).
11469				E(p)(lab)=5433, IAS(2960 ^{63}Ni) (1966Bo26).
11641				E(p)(lab)=5608, IAS(3100 ^{63}Ni) (1966Bo26).
11723				E(p)(lab)=5691, IAS(3173 ^{63}Ni) (1966Bo26).
11816				E(p)(lab)=2786, IAS(3291 ^{63}Ni) (1966Bo26).
11951				E(p)(lab)=5923, IAS(3428 ^{63}Ni) (1966Bo26).
12056				E(p)(lab)=6030, IAS(3553 ^{63}Ni) (1966Bo26).
12196				E(p)(lab)=6172, IAS(3657 ^{63}Ni) (1966Bo26).

[†] From E(p)(c.m.)+6122.

[‡] From $\sigma(E, \theta)$.

[#] From [1976Ar01](#).