^{61}Ni(n,n′γ)   **1989Ko54**

	History		
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	20-Jan-2020

No changes made since the 2015 update.

1989Ko54: E=1-6 MeV. Measured $\gamma(\theta)$, δ, $T_{1/2}$, B(E2), B(M1), Ge(Li)-NaI(Tl) detector.

^{61}Ni Levels

E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$[#]	E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$[#]	E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$[#]
0	3/2$^-$		1132	5/2$^-$	0.14 ps *4*	2121	9/2$^+$	
67	5/2$^-$		1185	3/2$^-$	0.14 ps *+8−4*	2124	1/2$^-$	0.045 ps *19*
282	1/2$^-$		1729	3/2$^-$	0.062 ps *14*	2129	11/2$^-$	
656	1/2$^-$		1808	9/2$^-$		2462	7/2$^-$	0.236 ps *+21−7*
908	5/2$^-$		1987	9/2$^-$		3298	11/2$^+$	
1015	7/2$^-$		1998	5/2$^-$	0.045 ps *7*	3435	13/2$^+$	
1099	3/2$^-$	0.16 ps *4*	2018	7/2$^-$	0.12 ps *+8−3*			

[†] From 1989Ko54, except as noted.
[‡] From Adopted Levels.
[#] From Doppler shift attenuation method (DSAM).

$\gamma(^{61}$Ni)

E$_\gamma$	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$	E$_\gamma$	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$	E$_\gamma$	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$
67	67	5/2$^-$	0	3/2$^-$	841	908	5/2$^-$	67	5/2$^-$	1079	1987	9/2$^-$	908	5/2$^-$
282	282	1/2$^-$	0	3/2$^-$	908	908	5/2$^-$	0	3/2$^-$	1114	2129	11/2$^-$	1015	7/2$^-$
588	656	1/2$^-$	67	5/2$^-$	948	1015	7/2$^-$	67	5/2$^-$	1177	3298	11/2$^+$	2121	9/2$^+$
626	908	5/2$^-$	282	1/2$^-$	972	1987	9/2$^-$	1015	7/2$^-$	1314	3435	13/2$^+$	2121	9/2$^+$
816	1099	3/2$^-$	282	1/2$^-$	1015	1015	7/2$^-$	0	3/2$^-$	1741	1808	9/2$^-$	67	5/2$^-$

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Level Scheme

${}^{61}_{28}$Ni$_{33}$