

$^{60}\text{Ni}(\text{d},\text{n})$ 1969Ok01,1969Fu06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Kazimierz Zuber, Balraj Singh		NDS 125, 1 (2015)	25-Jan-2015

1969Fu06: E(d)=3.8 and 6 MeV. Neutron time of flight, $\sigma(\theta)$. Determined deuteron optical potential from sub-Coulomb stripping.

1969Ok01: E(d)=11.7 MeV. Neutron time of flight, $\sigma(\theta)$, FWHM \approx 150 keV.

Data are from 1969Ok01. There is good agreement with 1969Fu06 at E(d)=6 MeV.

Others: 1965Ok01, 1966Ok01, 1966Ok02.

 ^{61}Cu Levels

E(level)	$(\text{d}(\sigma)/\text{d}(\omega))_{\text{max}}$	L [†]	$(2J+1)\text{C}^2\text{S}^\ddagger$	Comments
0	10.4	1	2.76	
480 50	6.2	1	1.52	
980 50	1.3	3	3.46	
1410 50	0.9	3	2.01	
1940 50	3.3	1	0.65	
2340 50				
2820 50	1.2	1	0.21	
3050 50	1.8	1	0.27	
3230 50	1.0			
3460 50	1.9	2	0.72	
3840 50	1.4 [‡]	0		
4470 50	2.0	2	0.66	
4900 50	3.3			
5240 50				
5580 50	2.5 [‡]	0		
6170 50				
6420 50	3.3	1	0.37	E(level): analog of 3/2 ⁻ , g.s. in ^{61}Ni .
6680 50	2.6	1	0.29	E(level): analog of 1/2 ⁻ , 283-keV in ^{61}Ni .
7130 50		1		E(level): analog of 1/2 ⁻ , 656-keV in ^{61}Ni .
7370 50		3		E(level): analog of 5/2 ⁻ , 909-keV in ^{61}Ni .
7620 50		1		E(level): analog of 3/2 ⁻ , 1185-keV in ^{61}Ni .

[†] From comparisons with DWBA calculations.

[‡] Cross section for a neutron emission angle $\theta=10^\circ$.