

$^{61}\text{Ni}(d,d')$ 1967Co27

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

No changes made since the 2015 update.

1967Co27: E=7.5 MeV. Measured $\sigma(E(d'),\theta)$, 20 angles (c.m.) between $\approx 30^\circ$ and 172.5° , magnetic spectrograph $\Delta E=5-10$ keV, enriched target (74%).

$J^\pi(^{61}\text{Ni g.s.})=3/2^-$.

Other: 1962Jo05.

 ^{61}Ni Levels

<u>E(level)</u>	<u>L^\dagger</u>	<u>E(level)</u>	<u>L^\dagger</u>	<u>E(level)</u>	<u>L^\dagger</u>	<u>E(level)</u>
0		1020 10	2	1618 10	(2)	2417 10
68 5		1106 10		1737 10		2474 10
284 5		1139 10	2	1814 10		2536 10
661 5	2	1192 10	2	1996 10		2707 10
916 5	2	1462 10	2	2130 10		

† From comparison with angular distribution of (d,d') to the first 2^+ state in ^{60}Ni .