

$^{65}\text{Cu}(\text{d},\alpha)$  1967Hj01,1968Da01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 196,17 (2024)	30-Sep-2023

$J^\pi(^{65}\text{Cu})=3/2^-$ .

**1967Hj01**: E=15 MeV deuteron beam was produced from the University of Pittsburgh cyclotron. Target was enriched  $^{65}\text{Cu}$ . Reaction products were momentum-analyzed with a magnetic spectrograph (FWHM $\approx$ 60 keV).

Measured  $\alpha$  spectra. Deduced levels.

**1968Da01**: E=12 MeV deuteron beam was produced from the University of Pittsburgh cyclotron. Reaction products were momentum-analyzed with a magnetic spectrograph (FWHM=12 keV). Measured  $\sigma(\theta)$ . Deduced levels.

 $^{63}\text{Ni}$  Levels

E(level) <sup>†</sup>	E(level) <sup>†</sup>	E(level) <sup>†</sup>	E(level) <sup>†</sup>
0.0	1460 <sup>15</sup>	2532? <sup>25</sup>	3578 <sup>35</sup>
88 <sup>‡</sup> <sup>15</sup>	1673 <sup>15</sup>	2724 <sup>25</sup>	3683 <sup>35</sup>
156 <sup>‡</sup> <sup>15</sup>	1790 <sup>‡</sup> <sup>15</sup>	2898 <sup>25</sup>	3780? <sup>35</sup>
523 <sup>‡</sup> <sup>15</sup>	1910 <sup>‡</sup> <sup>15</sup>	3034 <sup>30</sup>	3938 <sup>35</sup>
710? <sup>15</sup>	2030? <sup>20</sup>	3150? <sup>30</sup>	4018 <sup>40</sup>
1008 <sup>‡</sup> <sup>15</sup>	2165 <sup>20</sup>	3222 <sup>30</sup>	
1259 <sup>15</sup>	2249 <sup>20</sup>	3358 <sup>30</sup>	
1360? <sup>15</sup>	2339 <sup>20</sup>	3460? <sup>30</sup>	

<sup>†</sup> From 1967Hj01, except noted otherwise.

<sup>‡</sup> from 1968Da01.