

${}^{58}\text{Ni}({}^{12}\text{C}, {}^{10}\text{Be})$  [1990Bo27](#), [1979We02](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

E=112 MeV. FWHM=100-200 keV. Spectrum from  $7^\circ$  to  $13^\circ$  (lab). Level configuration based on shell model calculations ([1990Bo27](#)).

E=77 MeV. FWHM $\approx$ 150 keV.  $\sigma(\theta)$  show little or no structure ([1979We02](#)).

 ${}^{60}\text{Zn}$  Levels

E(level) <sup>†</sup>	J $\pi$ <sup>#</sup>	Comments
0.0 <sup>‡</sup>		
1010 <sup>50</sup>		
2190 <sup>50</sup>		
3590 <sup>50</sup>		
3710 <sup>50</sup>	(4 <sup>+</sup> ) <sup>@</sup>	Configuration= $(\pi f_{5/2})^{+2}4^+$
3840 <sup>50</sup>		
4400 <sup>50</sup>	(5 <sup>-</sup> )	Configuration= $((\pi p_{3/2})(\pi g_{9/2}))5^-$
5300 <sup>50</sup>	(7 <sup>-</sup> ) <sup>@</sup>	
5970 <sup>‡</sup> <sup>70</sup>		
6360 <sup>‡</sup> <sup>70</sup>		
6950 <sup>50</sup>	(8 <sup>+</sup> )	Configuration= $(\nu g_{9/2})^{+2}8^+$ J $\pi$ : from systematics.
7130 <sup>‡</sup> <sup>70</sup>		
7350 <sup>50</sup>		
7660 <sup>‡</sup> <sup>70</sup>		
7980 <sup>50</sup>	(8 <sup>+</sup> )	Configuration= $(\pi g_{9/2})^{+2}8^+$
8300 <sup>50</sup>	(6 <sup>+</sup> )	Configuration= $((\pi g_{9/2})(\pi d_{5/2}))6^+$
8750 <sup>50</sup>	(4 <sup>+</sup> )	Configuration= $(\pi d_{5/2})^{+2}4^+$

<sup>†</sup> From [1990Bo27](#), except as noted otherwise.

<sup>‡</sup> From [1979We02](#).

<sup>#</sup> Tentative J $\pi$  assignments are based on crude shell model calculations, except as noted otherwise.

<sup>@</sup> Based on shell model calculation and also in agreement with the systematic trend.