

$^{62}\text{Ni}(^{12}\text{C},^{10}\text{Be}),(^{16}\text{O},^{14}\text{C})$  [1990Bo27,1971Fa12](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 178, 41 (2021).	12-Nov-2021

[1990Bo27](#): ( $^{12}\text{C},^{10}\text{Be}$ ) E=112 MeV, data from  $7^\circ$  to  $13^\circ$  (lab). FWHM=100-200 keV. Level configurations suggested on the basis of shell-model calculations. Uncertainty in absolute cross sections=30%.

[1971Fa12](#): ( $^{16}\text{O},^{14}\text{C}$ ) E=48 MeV,  $\sigma(\theta)$ , FWHM $\approx$ 250 keV.

Suggested configurations are from [1990Bo27](#).

Others: ( $^{16}\text{O},^{14}\text{C}$ ) [1973Ch10](#), [1971MaXZ](#).

 $^{64}\text{Zn}$  Levels

E(level) <sup>†</sup>	$d\sigma/d\Omega$ ( $\mu\text{b/sr}$ ) <sup>‡</sup>	Comments
0		
980 50	76	
1800 50		
2400 50		
3060 50	434	Configuration= $\pi f_{5/2}^2$ 4+.
4100 50	530	Configuration= $(\pi p_{3/2} \otimes \nu g_{9/2})_{5-}$ .
4650 50	185	Configuration= $(\nu f_{5/2} \otimes \nu g_{9/2})_{7-}$ .
5300 50	434	Configuration= $(\pi f_{5/2} \otimes \nu g_{9/2})_{7-}$ .
5700 50	186	Configuration= $\nu g_{9/2}^2$ 8+ for 5700 or 6300.
6300 50		See comment for 5700 level.
6700 50	315	Configuration= $\pi g_{9/2}^2$ 8+.
7400 50		
7900 50	521	Configuration= $(\pi g_{9/2} \otimes \pi d_{5/2})_{6+}$ .

<sup>†</sup> From ( $^{12}\text{C},^{10}\text{Be}$ ) ([1990Bo27](#)). In ( $^{16}\text{O},^{14}\text{C}$ ) ([1971Fa12](#)), only the g.s. and 980 level reported.

<sup>‡</sup> At  $10^\circ$ , from [1990Bo27](#).