

$^{66}\text{Zn}(^{12}\text{C},^{10}\text{Be})$ 1990Bo27

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

$E(^{12}\text{C})=112$ MeV. Measured $E(\text{level})$ and $\sigma(\theta)$ for $\theta(\text{lab})=4^\circ-10^\circ$ using Q3D spectrometer and position sensitive detector (FWHM=100-200 keV); DWBA analysis.

 ^{68}Ge Levels

E(level)	J^π	$d\sigma/d\Omega$ (10°) ($\mu\text{b}/\text{sr}$)	Comments
0.0			
1030 50		22 7	
1800 50			
2280 50			
2660 50		148 44	
3050 50	4^+	116 35	J^π : from systematic trends and crude shell-model calculations. Configuration: $(\pi f_{5/2})^2_{4+}$.
3670 50		130 39	Configuration: $(\pi p_{3/2} \pi g_{9/2})_{5-}$.
4080 50		292 88	Configuration: $(\nu f_{5/2} \nu g_{9/2})_{7-}$.
4610 50	7^-	156 47	J^π : from crude shell-model calculations. Configuration: $(\pi f_{5/2} \pi g_{9/2})_{7-}$.
4810 50	8^+	210 63	J^π : based on systematics. Configuration: $(\nu g_{9/2})^2_{8+}$.
5180 50			
5560 50			
6300 50	(8^+)		J^π : from crude shell-model calculations. Configuration: $(\pi g_{9/2})^2_{8+}$.
6960 50	(6^+)		J^π : from crude shell-model calculations. Configuration: $(\pi g_{9/2} \pi d_{5/2})_{6+}$.