^{66}Zn(α,^{2}He) 1990Fi07

History

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

Eα=56 MeV. Measured $\sigma(\theta)$ for θ=17.5°−40° using 2 ΔE-E Si telescopes (FWHM=200-300 keV); DWBA analysis. Some of the data presented here were also reported in 1985Ja02.

^{68}Zn Levels

E(level)	J$^{\pi}$	L	Comments
0.0			
1090 *50*			
2380 *50*			
2780 *50*			
3740 *50*	(5^{-})	(7+5)	E(level): unresolved from 3940 *50* level for angular distribution analysis. Suggested configuration: $(\nu p_{1/2}\nu g_{9/2})_{5-}$.
3940 *50*	(7^{-})	(7+5)	E(level): unresolved from 3740 *50* level for angular distribution analysis. Suggested configuration: $(\nu f_{5/2}\nu g_{9/2})_{7-}$.
4370 *50*		(8+6)	E(level): Likely doublet consisting of 8^{+} and 6^{+} levels. J^{π}=6^{+} configuration of $(\nu g_{9/2}\nu 2d_{5/2})_{6+}$, J^{π}=8^{+} configuration of $(\nu g_{9/2})^{2}_{8+}$.
5100 *50*			
5350 *50*			