

⁵⁸Ni(¹²C,⁸Be)

1976Ma12

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Huang Xiaolong, and Wang Xianghan		NDS 204,1 (2025)	30-Jun-2023

1976Ma12: E=55 MeV. Measured 2α from ⁸Be in coincidence using particle detectors, FWHM ≈ 500 keV at Munich MP tandem accelerator. DWBA analysis.
Alpha cluster transfer reaction.

⁶²Zn Levels

E(level)	L	S [†]	Comments
0	0	0.20	[S(¹² C)][S(α)]=0.106.
950	2	0.070	[S(¹² C)][S(α)]=0.038.
2.20×10 ³	15		
3.20×10 ³	15		
4.00×10 ³	15		
5.00×10 ³	15		
7.00×10 ³	15		

[†] Spectroscopic factor for (⁵⁸Ni+α), if S(⁸Be+α)=0.542.