^{58}Ni(^{4}He,xγ):GDR 2024Mo09

History

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

2024Mo09: E(α)=28 MeV and 40 MeV. Measured Eγ, Iγ using the λ spectrometer consisting of 49 BaF_2 scintillators at K-130 cyclotron (VECC, Kolkata) and a low-energy γ ray multiplicity filter consisting of 50 BaF_2 scintillators. Deduced parameters for GDR.

^{62}Zn Levels

E(level)	Γ	Comments
29.5×10^3	6.7 MeV *3*	Γ: for GDR for T=0.9 MeV with SLO model. Others: Γ varies from 5.5 to 7.9 MeV for different model parameters.
40.8×10^3	7.0 MeV *3*	Γ: for GDR for T=1.5 MeV with SLO model. Others: Γ varies from 6.6 to 8.6 MeV for different model parameters.