

³²Si(³⁰Si,X):GDR [2021Go15](#)

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

[2021Go15](#): ³²Si(³⁰Si,X)⁶²Zn*,E(³⁰Si)=75,98 MeV; measured high-energy Eγ, Iγ using GALILEO array of 25 HPGe detectors and ten LaBr₃(Ce) scintillators at the Tandem accelerator facility of INFN-Legnaro. Deduced energies and widths of the Giant dipole resonance, isospin mixing parameter and isospin-symmetry-breaking correction by analyzing experimental γ-spectra using statistical model calculations.

⁶²Zn Levels

E(level)	Γ (GDR)	Comments
18.4×10 ³ 1	11.6 MeV 2	Energy and width of the GDR from data at E(³⁰ Si)=75 MeV. Corresponding values at E(³⁰ Si)=98 MeV are: E(GDR)=18.1 MeV 1, Γ(GDR)=12.6 MeV 2 (2021Go15).