

¹²C(⁶⁷Se,xγ) 2024EI04

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

2024EI04: Secondary ⁶⁷Se beam produced through fragmentation of a 345 MeV/nucleon ⁷⁸Kr beam from RIKEN incident on a ⁹Be target. Beam separated with Bρ-ΔE-tof flight method using BigRIPS separator. ⁶⁷Se secondary beam incident on a 2-mm thick ¹²C target. Measured Eγ, Iγ, γγ using the CATANA array consisting of 100 CsI(Na) scintillator crystals and particle-γ using the SAMURAI spectrometer.

⁶²Ge Levels

E(level) [†]	J ^π [‡]
0	0 ⁺
948 17	(2 ⁺)
1692 26	(2 ⁺)

[†] From γ-ray energies.
[‡] From comparison to shell model calculations.

γ(⁶²Ge)

E _γ	I _γ	E _i (level)	J ^π _i	E _f	J ^π _f
744 20	41 19	1692	(2 ⁺)	948	(2 ⁺)
948 17	100	948	(2 ⁺)	0	0 ⁺

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Level Scheme
Intensities: Relative I_γ

- Legend
- I_γ < 2% × I_γ^{max}
 - I_γ < 10% × I_γ^{max}
 - I_γ > 10% × I_γ^{max}

