⁵⁹Ni(n, α) E=thermal 1977As02

History

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The authors noted that in-spite of a large (n,α) cross section there is no positive indication for the existence of $(n,\gamma\alpha)$ process. Other: 1974Ei01.

⁵⁶Fe Levels

E(level) $\sigma(E\alpha)$, b 1.31 11 847 0.188 16

⁵⁹Ni: produced by irradiating ⁵⁸Ni(enriched to 99.9%) for 4 months in nuclear reactor. Measured $\sigma(\alpha)$, a value of $\sigma(\alpha\gamma)$ ≤13 mb was obtained for the two-step ⁵⁹Ni(n,γα).