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Continued progress on the $^{15}{\rm N}$ system

Tuesday 18 November 2025 15:00 (1 hour)

Previous work has been preformed to fit 14 N+n, 14 C+p and 11 B+ α data for the 15 N system up to about 2 MeV above the their respective thresholds, which are similar in energy. This past work found that there were apparent discrepancies in the fitting, expecially with the 11 B(α , n) 14 N and 14 N(n, p) 14 C data sets. By implementing energy shifts, resolution effects, improved handeling of the Coulomb functions near thresholds and increase in code speed, some of these apparent discrepancies were resolved. However, other discrepancies, including some rather large normalization factors for the data and some data with very small uncertainties, are still resulting in conflicting results.

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