

Consultants' Meeting on International Nuclear Data Evaluation Network for Light Elements (INDEN-LE)

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R-matrix analysis of ^8Be system

Tuesday 19 November 2024 16:00 (50 minutes)

An accurate understanding of charged-particle induced reactions is important for both astrophysics and nuclear applications. Prompted by recent experimental measurements, an improved R-matrix analysis of the ^8Be system is performed. This analysis is compared to existing ENDF evaluation, and discrepancies are discussed. Uncertainties in the R-matrix parameters and experimental cross sections are inferred using a Bayesian analysis method. The results of this work will be presented and discussed.

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