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Neuromorphic Improvement of the Weizsaecker Formula

Friday 8 July 2022 11:15 (45 minutes)

Yearly nuclide mass data is fitted to improved versions of the Weizsaecker formula. The present attempt at furthering the precision of this endeavour aims to reach beyond just precision, and obtain predictive capability about the “Stability Island” of nuclides. The method is to perform a fit to a recent improved liquid drop model with isotonic shift. The residuals are then fed to a neural network, with a number of “feature” quantities. The results are then discussed in view of their perspective to predict the “Stability Island”.

Agreement to place

Participants agree to post their abstracts and presentations online at the workshop website. All materials will be placed in the form in which they were provided by the authors

Author: DIMA, Mihai-Octavian (JINR - MLIT)

Presenter: DIMA, Mihai-Octavian (JINR - MLIT)

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