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Overview of MINERvA's Binding Energy Study with the STKI Variables

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The single transverse kinematic imbalance (STKI) variables are important new tools to identify deficiencies in the modeling of the nucleus in neutrino experiments. MINERvA has pioneered the measurement of a pair of STKI variables (dptx, dpty) with sensitivities to the implementation of the binding energy in GENIE 2.12.6. Our measurements indicate a discrepancy between data and MC in the peak position of dpty, which is reduced if the binding energy term in GENIE is added back to the final state nucleon.

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