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EMC Effect Using Thermodynamical Bag Model

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Abstract: The nuclear EMC effect has been evaluated in the entire range of Bjorken variable x for the value of $Q^2 = 5 \text{ GeV}^2$ using the phenomenological model known as the Thermodynamical bag model (TBM) and the results have been compared with the experimental values obtained in the deep inelastic scattering by SLAC and BCDMS. Also the values of structure function ratio are obtained as a function of Nachtmann variable ξ , which is used to represent the quark momentum in the Bjorken limit.

Key Words: EMC effect and Nuclear structure function



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