

XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



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Nuclear Parton Distributions

Wednesday, April 13, 2016 12:00 PM (15 minutes)

We present the status of our calculation of nuclear parton distribution functions on the basis of our recently developed semi-microscopic model, which takes into account a number of nuclear effects including nuclear shadowing, Fermi motion and nuclear binding, nuclear meson-exchange currents and off-shell corrections to bound nucleon distributions. We discuss in details the dependencies of nuclear effects on the type of parton distribution (nuclear sea vs. valence) as well as on the parton flavour (isospin). We discuss a number of applications ranging from Deep Inelastic Scattering to the Drell-Yan production.

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