

## XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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### Modeling nuclear parton distributions

We discuss the current status of nuclear parton distribution functions computed on the basis of a microscopic model, which includes a number of nuclear effects accounting for nuclear shadowing, nuclear momentum distribution and binding, nuclear meson-exchange currents and off-shell corrections [1-3]. We review applications of the model in computing nuclear corrections to the DIS structure functions [4,5], rapidity distributions of W and Z boson production in p+Pb collisions at the LHC [6] as well as constraints on the d/u ratio from global QCD fits with nuclear data [7].

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