

EMC-effect in Drell-Yan process

The EMC effect or a modification of parton distributions in bound nucleons by nuclear environment as compared to free ones, has been extensively studied during the last 30 years. Many explanations of the effect like nuclear binding, pion excess in nuclei, multi-quark clusters, dynamic rescaling, medium modification, short-range correlations, etc. have been proposed, but its full understanding is still lacking. The COMPASS experiment at CERN will provide new results on the EMC effect, originating from the Drell-Yan process and studied in the 190 GeV π^- beam scattering on the ammonia and tungsten targets.

The present understanding of the EMC effect and experimental possibilities of COMPASS in this context will be discussed.

Subject

QCD+Flavour

Abstract Title

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Session Classification: Parallel Session QCD+HF