

Nuclear matter effects in the pion-induced Drell-Yan process at COMPASS

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Cold nuclear matter effects such as parton energy loss in nuclear matter and nuclear modification of parton distribution functions in the Drell-Yan process in πA and pA collisions have been extensively studied during the last 30 years. Various theoretical models have been proposed to explain these effects, but its full understanding is still lacking.

COMPASS studies nuclear effects in Drell-Yan through cross section ratios on nuclear targets using a 190 GeV π^- beam scattering on ammonia and tungsten targets.

The present understanding of these effects and experimental possibilities of COMPASS in this context will be discussed.

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