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Séminaire de Physique Nucléaire Théorique

Nuclear Parton Distributions and LHC data

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Parton distributions of nucleons bound in the nucleus can be significantly modified compared to the distributions of the free nucleons. These modifications, commonly referred to as the nuclear corrections, are important for doing precise measurements in heavy ion collisions, and global analysis of nuclear parton distribution functions (nPDFs) allows for a systematic estimate of these effects. In this presentation I outline the formalism used in the global analysis of nPDFs, and review available nPDFs. I give special attention to the nCTEQ analysis, and I show our new results. I will also comment on the impact of already available LHC data on the nPDFs.

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