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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 besignificantly modified compared to the distributions of the freenucleons. These modifications, commonly referred to as the nuclearcorrections, are important for doing precise measurements in heavyion collisions, and global analysis of nuclear parton distributionfunctions (nPDFs) allows for a systematic estimate of these effects.In this presentation I outline the formalism used in the globalanalysis of nPDFs, and review available nPDFs. I give specialattention 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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