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Why are high-momentum (large x) quarks in the nucleon important? Navigating the large-x landscape New global analysis ("CTEQX") nuclear effects & d/u PDF ratio first foray into high-x, low-Q region2surprising new results for d quark Summary Outline subleading 1/Q 2 corrections Extension to SIDIS target and hadron mass corrections

High-Momentum Quarks in the Nucleon

High-Momentum Quarks in the Nucleon Physicists identified a large-radius jet inside the detector, the result of a very high momentum top-quark pair decaying into a bundle of quarks. ATLAS Experiment studies the dynamics of very high ... High-Momentum Top Quarks Studies of high-momentum top-quark pairs are

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ATLAS Experiment studies the dynamics of very high ...

High-Momentum Top Quarks Studies of high-momentum top-quark pairs are challenging, as it is a channel with significant background. The new ATLAS measurement uses a pioneering method taking advantage of a relativistic effect known as a Lorentz boost. [11] Nuclear physicists are now poised to embark on a new journey of discovery into the

High-Momentum Top Quarks

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These particles predominantly come from rare, high-momentum collisions between quarks and gluons (partons) that occur in the hot, early stage of the reaction. As high momentum partons travel through the forming plasma, they are predicted to lose a considerable fraction of their energy.

The Quark Gluon Plasma | Department of Physics and Astronomy

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J = total angular momentum, B = baryon number, Q = electric charge, ... This process of hadronization occurs before quarks, formed in a high energy collision, are able to interact in any other way. The only exception is the top quark, which may decay before it hadronizes.

Quark - Wikipedia

And the so.called scaling hypothesis as evidence for substructures inside the nucleon, as well as the role and distribution of quarks in the nucleon. Form factors decrease rapidly with q^2 like we showed in video 5.1. Consequently, the probability to observe an elastic scattering becomes low at high energy-momentum transfer. This is not surprising.

5.2 Inelastic scattering and quarks | Coursera

This paper presents studies of the performance of several jet-substructure techniques, which are used to identify hadronically decaying top quarks with high transverse momentum contained in large-radius jets. The efficiency of identifying top quarks is measured using a sample of top-quark pairs and the rate of wrongly identifying jets from other quarks or gluons as top quarks is measured using ...

Identification of high transverse momentum top quarks in ...

Top quarks with high transverse momentum (p T & 200GeV) may instead be reconstructed as a jet with large radius parameter, R ≥ 0.8 (large-R jet) [1–13]. An analysis of the internal jet structure is then performed to identify and reconstruct hadronically decaying top quarks (top tagging).

Identification of high transverse momentum top quarks in ...

data at x≲1.05 are in better agreement with the high-Q. 2. data measured in (anti)neutrino-nuclear reactions which require

substantial high-momentum nuclear effects in the generation of superfast quarks. Our prediction for the high-Q. 2. and x>1.1 region is somewhat in the middle of the neutrino-nuclear and muon-nuclear scattering data.

QCD evolution of superfast quarks
Protons and neutrons (“nucleons”) are made up of three highly energetic quarks that move around in their tightly confined space with a broad range of different momenta. It was assumed that this momentum distribution would be unaffected by the nuclear environment, since the binding force between the quarks is hundreds of times greater than that between the relatively widely-spaced nucleons.

Physics - Quarks Influenced by Their Neighborhood
A high energy quark moving through this initial Glasma along the x direction receives additional momentum along z from electric flux tubes and momentum along y from magnetic flux tubes according to the non-Abelian Lorentz force. Interestingly, even as these two kinds of flux tubes continue to evolve and expand, their bending effect stays the same.

Jet momentum broadening in the pre-equilibrium Glasma ...
In our particular case, it follows that one should write energy and momentum in terms of the mass of the top quark. E 2 - p 2 = (2m t) 2. When one observes that the net momentum in a plane perpendicular to the beam direction before the collision is the same as the momentum after and that value is zero, we write: E 2 = (2m t) 2

Calculate the Top Quark Mass - Fermilab
High Momentum Particle Identification Detector The HMPID detector before final installation inside the ALICE magnet. The High Momentum Particle Identification Detector (HMPID) is a RICH detector to determine the speed of particles beyond the momentum range available through energy loss (in ITS and TPC, p = 600 MeV) and through time-of-flight ...

ALICE experiment - Wikipedia

Antiquarks and gluons carrying the momentum of the. antiquarks, and gluons) carrying the momentum of the nucleon at higher Q 2 . Since the total of the momentum fractions must sum to unity, each parton carries, on average, lower x at higher Q 2 . This leads to the correction for “scaling violation” where the observed structure functions increase with Q 2 at lower x (due to the greater abundance of soft partons), but decrease with Q 2 at higher x (to keep the total momentum sum fixed).

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