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## High Momentum Quarks In The Nucleon

**high-momentum top quarks - vixra** - 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 **high-momentum quarks in the nucleon - jlab** - 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 region 2 surprising new results for d quark summary outline subleading 1/q<sup>2</sup> corrections extension to sidis target and hadron mass corrections **clusters, correlations and quarks: a high-energy ...** - clusters, correlations and quarks: a high-energy perspective on nuclei. ... proton = constituent quarks + strong interaction of quarks constituent quark = quarks + gluons ... • kinetic energy [high-momentum nucleons] perfect! subtle details of nuclear structure (clustering/pairing) ... **collisions of constituent quarks at collider** - collisions of constituent quarks at collider energies \* j. d. bjorken ... yes it does, because if the proton is at high momentum and deep inelastic scattering is used to count the quarks, one gets  $i l' f_z(x) = c e = (e^2) n g i n$ . ... constituent quarks are extended objects, while the quark-partons are pointlike. **atlas experiment studies the dynamics of very high ...** - top quarks at very high momentum than are observed, confirming and improving upon previous measurements published by both the atlas and cms experiments. remarkably, the invariant mass **exclusive photoproduction of mesons at high momentum transfers** - exclusive photoproduction of mesons at high momentum transfers vcs and dvcs: phys. rev. c76, 052201(r) 2007 ... strange quarks gluon exchange high t small impact b. gluon propagator from lattice quark correlations. ... = nucleon recoil momentum. **high 4-momentum elastic electroproduction of vector mesons ...** - high 4-momentum elastic electroproduction of vector mesons at hera. ... nadendla, vijaya kumar, "high 4-momentum elastic electroproduction of vector mesons at hera." (1996) u historical dissertations and theses. 6267. ... electro-weak interactions between the leptons and the quarks are described by a gauge field theory with broken su(2)<sub>xu</sub>(l ... **summary of experimental results: photons, leptons and ...** - summary of experimental results: photons, leptons and heavy quarks ... the suppression of high momentum particles, and the strong elliptic flow of hadrons. ... the standard explanation for this effect is that high momentum quarks/gluons lose energy before exiting the medium. this signature is an indication of.

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