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QCD and Hadronic Final States

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The production of inclusive jets as well as of dijet and trijet topologies is investigated with the high statistics HERA II data.

The H1 and ZEUS experiments have determined the corresponding cross sections with improved experimental precision, compared to previous measurements. For both experiments, a hadronic energy scale uncertainty as small as 1% is reached. The value of the strong coupling constant $\alpha_s(M_Z)$ is extracted and its running is probed.

Measurements with the ZEUS data of the photoproduction of isolated photons, both inclusive and in association with a jet, are reported, including studies of kinematic variables sensitive to the event dynamics. The measurements are compared to higher order theoretical calculations.

Using topologies involving high track multiplicities and an associated jet, the H1 data are used to search for the production and decay of QCD instantons.

A recent measurement of charged particle spectra in the H1 ep DIS data is also presented.

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Classifica Sessioni: Diffraction in DIS (II)

Classificazione della track: Diffraction in DIS