XIth Workshop on Deep-Inelastic Scattering April 2003, St. Petersburg

Dijet Production at low Bjorken xin Deep-Inelastic Scattering at HERA Roman Pöschl DESY Hamburg H1 Collaboration


Dijet Production in DIS





Data Sample and Cuts

H1 Data 1996/97 $\mathcal{Z} \approx 21$ pb-1













Jets

\$

Easier:

Rate of dijet events separated by an azimuthal (proposed by A.Szczurek et al. hep-ph/0011281) angle (much) smaller than π



Results for $\Delta \phi^*$ <120°





Summary and Conclusion

Results of analysis on dijet production at low x, Q² presented

Physics Messages:

- NLO QCD describes data in analysed phase space when measured as function of E^*_{τ} , $|\Delta \eta^*|$ Multi differential cross sections
- Azimuthal distances

Data allow for distinction between various prediction

Huge descrepencies between data and NLO-QCD predictions

Rate of Same Side Jets sensitive to different unintegrated pdfs Predictions exceed data

Best description by LO QCD Models

 Azimuthal correlation is powerful tool to improve understanding on virtuality of incoming gluon