EPS-HEP99
Abstract # 000
Parallel sessions: 1,6
Plenary sessions: 1,6

Test of the Standard Model in high E_T jet production at HERA

H1 Collaboration,
DESY, Notkestr.85, D-22607 Hamburg, Germany

Following the observation[1] by H1 of unexpected events with jets, high P_T leptons and missing transverse momentum, we explore final states with similar kinematic configurations but only high E_T in the final state. The data sample comprises all available e^+p data as well as, for the first time, also e^-p data collected in 1998 and 1999. The measured event rate is compared with QCD and electroweak production mechanisms for multijet events, and constraints on novel production mechanisms are derived.

References

1. H1 Collaboration, C. Adloff *et al*, DESY-98-063 / Eur. Phys. J. C 5 (1998) 4, 575-584.