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A Search for Resonant Production of New Particles at HERA

H1 Collaboration

Abstract

Leptoquarks and squarks can be singly produced by positron-quark fusion via a Yukawa coupling in the s-channel at HERA. A search is performed combining H1 published results based on 1994 e^+p data with recent 1995 e^+p data, corresponding in total to an integrated luminosity of about $6.4\,\mathrm{pb}^{-1}$. Preliminary results are presented for first generation leptoquarks and squarks coupling to first generation leptons. The squark search is extended to cover both the hypothesis that the lightest supersymmetric particle is a neutralino or a chargino.

Plenary Sessions:
9. Status of the Electroweak Interactions - A. Blondel, S. Pokorski
12. Searches for New Particles - P. Maettig
14. Supersymmetry and GUTS - G. Ross
15. Non-supersymmetric Extensions of the Standard Model - K. Lane
Parallel Session: II Electroweak Interaction Physics
7. Tests of the Standard Model
Parallel Session: III Physics beyond the Standard Model
11. Supersymmetry and GUTS
12. Non-supersymmetric extensions of the Standard Model
13. Search for New Particles