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Searches for Compositeness at HERA

H1 Collaboration

Abstract

A search for excited electrons, neutrinos and quarks is presented using the H1 detector at the *ep* collider HERA at DESY. The search is based on data taken in 1994 with an integrated luminosity of 2.75 pb^{-1}. Various decay channels have been investigated separately for the excited electrons. Only radiative decay channels were considered for excited neutrinos and quarks. The limits reached in the excited quark sector are complementary to and are contrasted with a recently published contact term analysis of H1.

Plenary Sessions:
9. Status of the Electroweak Interaction - A. Blondel, S. Pokorski
12. Searches for New Particles - P. Maettig
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
12. Non-supersymmetric extensions of the Standard Model
13. Search for New Particles