INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS
AMSTERDAM 2002

Abstract ID=ABS462
Beyond the Standard Model (experiment and theory)
Electroweak physics
Experiment: L3 Collaboration
Contact Person: Juan Alcaraz
Institute: CERN
Email: Juan.Alcaraz@cern.ch

Search for New Physics Phenomena in Fermion-Pair Production in e^+e^- Collisions at Centre-of-Mass Energies up to 209 GeV

L3 Collaboration

Abstract

The measurements of hadron and lepton-pair production cross sections and leptonic forward-backward asymmetries performed with the L3 detector at centre-of-mass energies between 130 GeV and 209 GeV are used to search for new physics phenomena such as: contact interactions, exchange of virtual leptoquarks and Z: bosons, effects of low scale gravity and TeV strings in models of quantum gravity with large extra dimensions. No evidence for these phenomena is found and new preliminary limits on their parameters are set.

Version 0
Date 2002-04-30 : 13:33:09'