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

Search for Charged Higgs Bosons in e^+e^- Collisions at Centre-of-Mass Energies up to 209 GeV

L3 Collaboration

Abstract

A search for pair-produced charged Higgs bosons is performed with the L3 detector at LEP using data collected at centre-of-mass energies between 200 and 209 GeV, corresponding to an integrated luminosity of 217.3 pb^{-1}. Decays into a charm and a strange quark or into a tau lepton and its neutrino are considered. Including data taken at lower centre-of-mass energies, lower limits on the charged Higgs mass are derived at the 95% confidence level as a function of the $H \to \tau\nu$ branching ratio. These results are PRELIMINARY.

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