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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 Heavy Isosinglet Neutrinos at LEP2

L3 Collaboration

Abstract

We report on a search for the first generation heavy neutrino that is an isosinglet under the standard $SU(2)_L$ gauge group. The data collected with the L3 detector at center-of-mass energies between 130 GeV and 208 GeV are used. The decay channel $N_e \to eW$ is investigated and no evidence is found for a heavy neutrino, N_e, in a mass range between 80 GeV and 205 GeV. Upper limits on the mixing parameter between the heavy and light neutrino are derived.

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