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Electroweak physics
Beyond the Standard Model (experiment and theory)
Experiment: L3 Collaboration
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Search for the Standard Model Higgs boson in e^+e^- collisions at center-of-mass energies up to 209 GeV at LEP

L3 Collaboration

Abstract

Final results of the search for the Standard Model Higgs boson are presented for the data collected by the L3 detector at LEP at centre-of-mass energies up to about 209 GeV. These data are compared with the expectations of Standard Model processes for Higgs boson masses up to 120 GeV. A lower limit on the mass of the Standard Model Higgs boson of 112.0 GeV is set at the 95% confidence level. The most significant high mass candidate is a $H\nu\bar{\nu}$ event. It has a reconstructed Higgs mass of 115 GeV and it was recorded at $\sqrt{s} = 206.4$ GeV.

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