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

L3 Collaboration

Abstract

A search for a non-minimal Higgs boson produced in the Higgsstrahlung process and decaying into undetectable particles is performed using the data collected by the L3 experiment at center-of-mass energies up to 209 GeV at LEP. The decays of the Z bosons into $q\overline{q}$, e^+e^- and $\mu^+\mu^-$ are considered. Lower limits on the Higgs mass are set as a function of the Higgs branching ratio into invisible particles assuming the cross-section for the Higgsstrahlung process.

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