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Beyond the Standard Model (experiment and theory)
Electroweak physics
Experiment: L3 Collaboration
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Search for anomalous couplings in the Higgs sector at LEP

L3 Collaboration

Abstract

Anomalous Higgs couplings are studied in the processes $e^+e^- \to H\gamma$, $e^+e^- \to HZ$ and $e^+e^- \to He^+e^-$ with the L3 detector at LEP. Data collected in the years 1998, 1999 and 2000 are used. The Higgs decays $H \to \gamma\gamma$ and $H \to Z\gamma$ are considered in this analysis. No evidence of anomalous Higgs production is found in the Higgs mass range 70 GeV $< m_H <$ 190 GeV. Limits on the anomalous couplings d, d_B, Δg_1^Z and $\Delta\kappa_\gamma$ are set.

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