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Electroweak physics
Beyond the Standard Model (experiment and theory)
Experiment: L3 Collaboration
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Study of the $W^+W^-\gamma$ Process and Direct Limits on Anomalous Quartic Gauge Boson Couplings at LEP

L3 Collaboration

Abstract

The process $e^+e^- \to W^+W^-\gamma$ is studied using the data collected by the L3 detector at LEP. New results, corresponding to an integrated luminosity of $427.4\,\mathrm{pb}^{-1}$ at centre-of-mass energies from 192 GeV to 207 GeV, are presented.

The $W^+W^-\gamma$ cross sections are measured to be in agreement with Standard Model expectations. No hints of anomalous quartic gauge boson couplings are observed. Limits at 95% confidence level are derived using also the process $e^+e^- \to \nu\bar{\nu}\gamma\gamma$.

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