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Electroweak physics
Beyond the Standard Model (experiment and theory)
Experiment: L3 Collaboration
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Single W Boson Production at LEP and Measurement of $WW\gamma$ Gauge Couplings

L3 Collaboration

Abstract

Single W boson production in electron-positron collisions is analysed with the L3 detector at LEP. Events with a single energetic lepton or two hadronic jets visible in the detector are selected. The total cross-sections are measured and found to be consistent with the Standard Model expectation. Including our single W boson results obtained at lower $\sqrt{s}$ the $WW\gamma$ gauge couplings κ_γ and λ_γ are determined.

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