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Electroweak physics
Beyond the Standard Model (experiment and theory)
Experiment: L3 Collaboration
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Hard-photon production in e^+e^- collisions at LEP

L3 Collaboration

Abstract

The process $e^+e^- \to n\gamma$ with $n \geq 2$ is studied at centre-of-mass energies ranging from $\sqrt{s} = 192$ to 208 GeV. The data sample corresponds to a total integrated luminosity of 427 pb^{-1}. The total and differential cross sections are found to be in agreement with the QED expectations. Using all the data collected with the L3 detector above the Z pole, limits on deviations from QED, excited electrons, contact interactions, extra space dimensions and excited spin-3/2 leptons are set.

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