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Electroweak physics
Beyond the Standard Model (experiment and theory)
Experiment: L3 Collaboration
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Cross-Section Measurement of tau-Pair Production in Two-Photon Collisions at LEP

L3 Collaboration

Abstract

A measurement of the cross section of tau-pair production in untagged two-photon collisions at LEP is presented. The channel $\tau^+ \to \pi^+\pi^0\overline{\nu}_\tau$, $\tau^- \to e^-\nu_\tau\overline{\nu}_e$ is studied using data collected with the L3 detector at centre-of-mass energies $\sqrt{s} = 189 - 209$ GeV, corresponding to a total luminosity of 644.1 pb^{-1}. The obtained results are in good agreement with $O(\alpha^4)$ QED predictions.

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