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QCD: Hard interactions
Heavy quark mesons and baryons (incl. lattice calculations)
Experiment: L3 Collaboration
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Measurement of the Charm Production Cross Section in $\gamma\gamma$ Collisions at LEP

L3 Collaboration

Abstract

Open charm production in $\gamma\gamma$ collisions is studied with data collected at e^+e^- centre-of-mass energies from 189 GeV to 202 GeV corresponding to a total integrated luminosity of 410 pb^{-1}. The charm cross section $\sigma(\gamma\gamma \to c\bar{c}X)$ is measured for the first time as a function of the two-photon centre-of-mass energy in the interval from 5 GeV to 70 GeV and is compared to NLO QCD calculations.

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