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Λ and Σ^0-Pair Production in Two-Photon Collisions at LEP

L3 Collaboration

Abstract

Strange baryon pair production in two-photon collisions is studied with the L3 detector at LEP. The analysis is based on data collected at e^+e^- centre-of-mass energies from 91 GeV to 208 GeV, corresponding to an integrated luminosity of 844 pb^{-1}. The processes $\gamma\gamma \to \Lambda\overline{\Lambda}$ and $\gamma\gamma \to \Sigma^0\overline{\Sigma}^0$ are identified. Their cross sections as a function of the $\gamma\gamma$ centre-of-mass energy are measured and results are compared to predictions of the quark-diquark model.

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