Σ^+ and Σ^0 production measured at LEP with the L3 Detector

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Abstract

Production rate measurements have been performed for Σ^+ and Σ^0 baryons produced in hadronic decays of the Z^0. The rates are compared against those of mesons and other baryons with a hadronization temperature model. These measurements take advantage of the unique photon detection capability of the L3 Experiment. The rates are in agreement with those measured by other LEP Experiments.