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Beyond the Standard Model (experiment and theory)
Experiment: L3 Collaboration
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Search for R-parity Violating Decays of Supersymmetric Particles in e^+e^- Collisions at LEP

L3 Collaboration

Abstract

A search, in e^+e^- collisions, for chargino, neutralino, scalar lepton and scalar quark pair-production is performed, without assuming R-parity conservation in decays, in the case that only one of the coupling constants λ_{ijk} or $\lambda ::_{ijk}$ is non-negligible. No signal is found in data up to a centre-of-mass energy of 208 GeV. Limits on the production cross sections and on the masses of supersymmetric particles are derived.

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