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Electroweak physics
Beyond the Standard Model (experiment and theory)
Experiment: L3 Collaboration
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Measurement of Longitudinally and Transversely Polarised W^+W^- Bosons in e^+e^- collisions at LEP

L3 Collaboration

Abstract

Preliminary results on the W boson helicity fractions at center-of-mass energies of up to 208 GeV are presented. The fractions of the different W helicity states, -1, +1 and 0, are determined. Combining all data the fraction of longitudinally polarised W bosons is measured to be $0.243 \pm 0.027(stat) \pm 0.012(syst)$ at an average centre-of-mass energy of 197 GeV, in agreement with Standard Model expectations.

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