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Preliminary Results on the Measurement of Mass and Width of the W Boson at LEP

L3 Collaboration

Abstract

We report on measurements of the mass and total decay width of the W boson with the L3 detector at LEP. W-pair events produced in e^+e^- interactions between 161 GeV and 208 GeV centre-of-mass energy are selected in a data sample corresponding to a total luminosity of approximately 704 pb^{-1}. Combining all final states in W-pair production, the mass and total decay width of the W boson are determined. These results are preliminary.

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