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Experiment: L3 Collaboration
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# Search for the Neutral Higgs Bosons of the Minimal Supersymmetric Standard Model in $e^+e^-$ Interactions at $\sqrt{s}$ up to 209 GeV

L3 Collaboration

**Abstract**

A search for the lightest neutral CP-even and the neutral CP-odd Higgs bosons of the Minimal Supersymmetric Standard Model is performed using 216.6 $\mathrm{pb}^{-1}$ of data collected with the L3 detector at LEP at centre-of-mass energies between 203 and 209 GeV. No signal is observed. Including our results from lower centre-of-mass energies lower mass limits for the Higgs bosons are given as a function of $\tan\beta$ for several scenarios. The mass limits for $\tan\beta$ greater than 0.7 are $m_h > 84.5$ GeV and $m_A > 86.3$ GeV at 95% confidence level.

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