Contribution ID : **53** Type : **not specified**

Beyond the standard model

Saturday, 11 October 2008 10:00 (1:00)

Abstract content

Despite extensive searching at LEP and the Tevatron, the Standard Model still provides an extremely accurate description of the fundamental particles and their interactions. Yet the Standard Model raises many questions, and theories of what might lie beyond it are numerous. We will focus on the big questions: what is the nature of the Higgs boson in theories beyond the standard model and what do we know about it? What can we say about supersymmetry at LEP, the Tevatron, and the LHC? Can we see dark matter at colliders? Could the LHC soon uncover extra dimensions of spacetime, new generations of fermions, or something totally unexpected?

Summary

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Session Classification : Review Talks