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Muon Collider: Plans, Progress and Challenges

Ronald Lipton

(Submitted on 16 Apr 2012)

We in the physics community expect the LHC to uncover new physics in the next few years. The character and energy scale of the new physics remain unclear, but it is likely that data from the LHC will need to be complemented by information from a lepton collider which can provide for precise examination of new phenomena. We describe the concept, accelerator design, and detector R&D for a high energy Muon Collider as well as the challenges associated with the machine and its detector environment.

Comments: 6 pages, 4 figures. Talk given at the August 2011 Meeting of

the Division of Particles and Fields of the American Physical

Society, Brown University, Providence, Rhode Island

Subjects: Accelerator Physics (physics.acc-ph); High Energy Physics

- Experiment (hep-ex)

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