

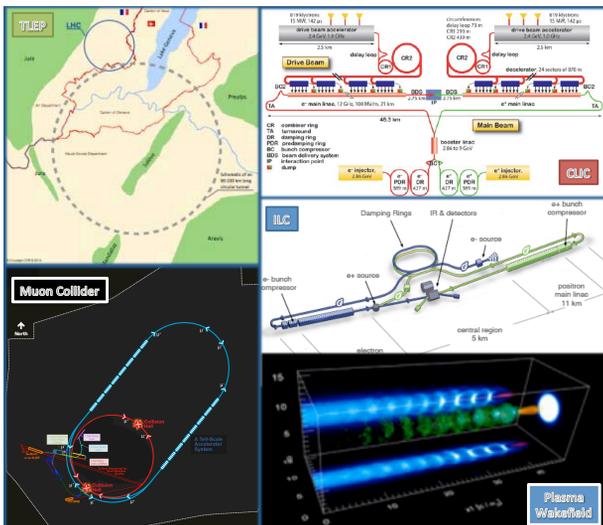
Journal Club

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FNAL



Lepton Colliders for the Next Generation of High Energy Physics Experiments

As part of the 2013 Snowmass process, the Lepton Collider Capabilities working group examined a range of lepton collider options that could enable precision studies of the Higgs particle: e^+e^- linear colliders, a large e^+e^- circular collider, and a muon collider. The first part of the talk will focus on the conclusions and recommendations prepared by that working group. Looking beyond the Higgs, a unique feature of the muon collider concept is the ability to efficiently provide colliding beams with center-of-mass energies in the several TeV range. Thus the talk will conclude with a brief update on the R&D program to establish feasibility of muon collider technologies. It will also describe the synergies of this approach with a muon accelerator facility that can provide high intensity beams to study the neutrino sector.



Friday, Mar. 7, 2014
4:00pm

301 Physical Sciences Building
 Refreshments, 3:45pm