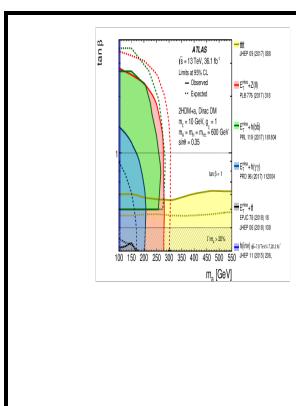


Colliders and collider physics at the highest energies - muon colliders at 10 TeV to 100 TeV : HEMC'99 Workshop, Montauk, New York, 27 September-1 October 1999

AIP - The potential for neutrino physics at muon colliders and dedicated high current muon storage rings



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The assessment of the parameter sets during the workshop is then reviewed and the implications for the feasibility of many-TeV muon colliders are evaluated. We now discuss yet another barrier to the use of ultra-cold beams, at least at very high energies, from synchrotron radiation.

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This concluding section also discusses the outlook for iterations and refinements on the parameter sets and, more generally, previews some plans for further studies on many-TeV muon colliders. During the workshop, Telnov raised what might possibly be a stronger constraint from synchrotron radiation on the energy reach of circular muon colliders, namely, the quantum nature of synchrotron radiation may lead to heating, rather than damping, of the horizontal beam emittance if the beam energy is high enough and the emittance is already very small.

Книги:

Perhaps the biggest technical problem with all FFAG scenarios is the difficulty in maintaining turn-by-turn an appropriate phase relationship with the rf acceleration, since the path lengths of the muon orbits within the FFAG lattice get progressively larger with increasing energy — as is conceptually illustrated in figure.

Parameter Sets for 10 TeV and 100 TeV Muon Colliders, and their Study at the HEMC'99 Workshop

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International design efforts are now under way.

Книги:

Berg pointed out that slightly increased technical difficulties might instead be expected for the low energy end of the acceleration for parameter sets A and, especially, B. King, Muon Colliders: New Prospects for Precision Physics and the High Energy Frontier, Proc.

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