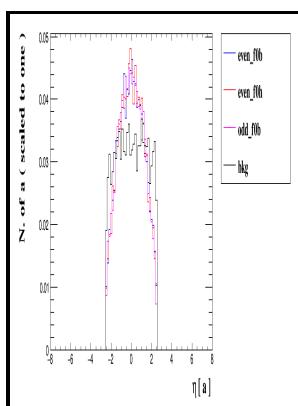


Colliders and collider physics at the highest energies - muon colliders at 10 TeV to 100 TeV : HEMC'99 Workshop, Montauk, New York, 27 September-1 October 1999

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



Description: -

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- Muons -- Scattering -- Congresses
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Figure gives a very conceptual illustration of the basic idea of FFAGs.

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

The physics parameters in table include two examples of event sample sizes.

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The average beamstrahlung energy losses can be replaced by rf acceleration, of course. Unfortunately, the cost of the FFAG magnets was not able to be explicitly addressed in any detail due to the newness and developing nature of FFAG scenarios ; for muon colliders. The methods and assumptions used in their generation are described and motivations are given for the specific choices of parameter values.

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Since the collisions at many-TeV colliders would normally be tune-shift limited anyway, it is likely that improved cooling would also require ip

compensation to substantially benefit the luminosity.

Книги:

In practice, slightly more attention was paid to q than to M in obtaining the final parameters. This formula uses the standard assumption from the Muon Collider Collaboration that the ratio of transverse to longitudinal emittances can be manipulated freely in the muon cooling channel to maximize the luminosity for a given $\epsilon \leq 6$ N.

STUDIES FOR MUON COLLIDERS AT CENTER

Decay losses were calculated according to equation. Courant and Al Garren, FFAG Lattice Without Opposite Bends, *ibid*. For now, we note that the table contains only a minimal amount of information—much less than was provided for the collider ring—and, in practice, the acceleration parameters were much less critical than the collider ring parameters for determining the technical feasibility or otherwise of the collider scenarios.

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Transfer lines between the rings are not shown.

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These have greatly reduced radiation constraints relative to circular muon colliders because radiation is only emitted in two pencil beams directed along the axes of the opposing linacs. More substantially, there is need for a new study and workshop.

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