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[Plenary] Muon Colliders and Their Magnet Technology Needs

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The high energy physics community around the world is evaluating future collider options to enable exploration of the high energy frontier. As part of that effort, a new international collaboration has formed to evaluate the physics potential and design of a multi-TeV muon collider. Muons, with their short lifetime, require dedicated technology R&D that goes beyond requirements of current collider capabilities. This presentation will provide an overview of the status of muon collider concepts and the program that is being planned to fully develop these concepts in the coming years. This will be followed by a more focused discussion of the magnet technology requirements for such a machine and the R&D synergies that exist with other magnet efforts currently underway.

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