

The US Magnet Development Program (MDP) Roadmap for future particle physics colliders.

The Particle Physics Project Prioritization Panel (P5), a decadal strategic planning exercise of the Particle Physics Community, has released their final report. The report is based on input from “Snowmass,” a scientific study to define the most important questions for the field of particle physics and identify promising opportunities to address them. Taking input from Snowmass, P5 lays out a strategic plan and sets priorities for the field. A broad range of proposals for future facilities were put forward, with a few targeting 10 TeV pCM energy. All of these require beyond state-of-the-art superconducting materials and magnets and the US Magnet Development Program has created an updated R&D Roadmap to align with the P5 priorities. Enabling such facilities will involve tackling a variety of challenges that will be described in this talk.

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