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Muon Colliders

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Muon collider is a potential accelerator solution for future particle physics in energy frontier. It provides unique properties to the research in multi-TeV energy range, as compared to other accelerator solutions such as proton-proton colliders and linear electron-positron colliders. This talk reviews the worldwide study history of muon colliders since 1990's, different design schemes, R&D efforts and outputs. It will also introduce the ongoing international efforts, especially the International Muon Collider Collaboration (IMCC) and the roadmap. The extreme challenges on the technologies and R&D efforts to realize a muon colliders are also commented.

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