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Session 18: Innovation in the generation of neutrino beams

Development of muon accelerators for neutrino experiments

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High-brilliance muon beams offer a unique potential for precision neutrino studies by providing intense neutrino beams with well-defined flavor content and energy spectrum. They also offer a path to improved precision searches for charged lepton flavor violation, and provide a basis for a next generation lepton-antilepton collider. The R&D for these muon facilities involves several technologies of which cooling the muon beam is a critical component. This talk will review progress on the development of the key technologies and their demonstration experiments.