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Accelerator systems for the International Design Study of the Neutrino Factory

The Neutrino Factory produces high-energy neutrino beams with a well-defined flavour content and energy spectrum from the decay of intense, high-energy, stored muon beams. The muon storage rings include long straight sections that are directed toward neutrino detectors that are sited several thousand kilometers away. This talk describes the status of the accelerator facility described in the Interim Design Report (IDR) recently completed by the International Design Study for a Neutrino Factory (IDS-NF). We give a baseline specification for the accelerator and describe the accelerator subsystems that comprise it. We will briefly indicate some of the accelerator-physics challenges such a facility presents and the alternative designs for some of the subsystems that are being considered to manage the technical risks that these challenges present.

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