

A High-Power Target system for the Production of Intense Muon Beams

Tuesday, 20 May 2014 17:30 (1h 30m)

We describe a solenoid capture system suitable for producing an intense muon beam for eventual injection into either a neutrino factory storage ring or a muon collider ring. This arrangement allows for the capture and transport of muons of both charge states. An initial configuration featuring a low-Z solid target is envisioned for a 1-MW proton driver beam, while maintaining an upgrade path to 4-MW operation, perhaps with a liquid-jet target.

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Session Classification: HPTW Poster Session & Reception

Track Classification: Target Facility Challenges