



Contribution ID : 670

Type : **Oral presentation**

Muon Accelerators for High Energy Physics Applications: nuSTORM, NuMAX & Beyond...

Thursday, 3 July 2014 15:40 (25)

Muon accelerators offer unique potential for high energy physics applications. They can provide clean, well-characterized and intense neutrino beams for short- and long baseline oscillation studies – thus providing unmatched measurement precision for key parameters such as the CP-violating phase as well as unique sensitivity to probe for new physics. Two Neutrino Factory concepts, nuSTORM and NuMAX, have recently been developed which can provide this unique physics reach at short- and long-baseline, respectively. This talk describes in detail the specifications and capabilities of these machines. In the further future, the implementation of these machines could also provide the foundation for deploying lepton collider capabilities in the multi-TeV regime.

Summary

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Session Classification : Accelerator Physics and Future Colliders

Track Classification : Accelerator Physics and Future Colliders