

The Beams and Applications Seminar Series

Accelerator R&D Opportunities at Fermilab's NML Facility

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Bldg. 401, Room A1100

Monday, November 29, 1:30 PM

Host: R. Gerig - PSC

Argonne and Fermilab have a long history of collaboration in many areas, including Advanced Accelerator R&D (AARD). Advanced beam physics studies are being carried out at dedicated facilities – the AWA at ANL and A0 at FNAL – with electron beam energies of several dozens of MeV.

Construction of the New Muon Laboratory (NML) SRF accelerator test facility at Fermilab offers a unique opportunity to expand beam research to the 1-GeV energy scale, with high-intensity, $20\mu\text{m}\times 20\mu\text{m}\times 20\mu\text{m}$ bunches of electrons at very high repetition rates. One can envision transforming the test facility into a dedicated AARD user facility. We will present the status and plans for the NML facility, including scientific capabilities and possible experiments. We will also discuss what can be done to establish this facility as a truly collaborative joint Argonne-Fermilab program.

For more information visit

http://aps.anl.gov/News/Meetings/Beams_and_Applications_Seminars/

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(mnolasco@aps.anl.gov, 630-252-6159) to arrange for a gate pass.