

## **SEM Grid Profile Monitors for Megawatt Proton Beams**

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

Profile Monitors providing precision measurement of beam profile distributions are essential for transport and targeting of high intensity proton beams. We describe here the SEM grid monitors developed for the 0.4 – 0.7 MW NuMI proton beam, along with the development process leading to the current monitor design. We also provide details of their utilization in the NuMI beam, along with extensive performance results. Finally, we provide design and performance details to date for monitors which should work well in 2+ MW proton beams.

**Primary author:** Mr TASSOTTO, Gianni (FNAL)

**Co-authors:** SCHOO, Daniel (Fermilab); Dr JENSEN, Douglas (Fermilab); CHILDRESS, Sam (AD/EBD/NuMI)

**Presenter:** Mr TASSOTTO, Gianni (FNAL)

**Session Classification:** HPTW Poster Session & Reception

**Track Classification:** Target/Beam Monitoring & Instrumentation