



Contribution ID: 440 Contribution code: MOP086

Type: Poster Presentation

SEM grid testing at NLCTA in BeamNetUS program

Monday 11 August 2025 16:00 (2 hours)

We report on the performance of a secondary electron monitor (SEM) grid for determining the transverse profile of an MeV range electron beam tested at SLAC National Accelerator Laboratory's NLCTA facility. When inserted into the path of the electron beam, secondary electron emission results in a measurable current on the wires that make up the grid. We present measurements using this technique to reconstruct the beam profile. The SEM grid was designed and built by a team of Harvey Mudd College (HMC) undergraduate students and tested at SLAC's NLCTA facility in collaboration with NLCTA staff as part of the BeamNetUS program. This SEM grid, developed for real-time measurements of an MeV scale electron beam, could have applications in industry and medicine.

Please consider my poster for contributed oral presentation

Yes

Would you like to submit this poster in student poster session on Sunday (August 10th)

No

Footnotes

Funding Agency

BeamNetUS

I have read and accept the Privacy Policy Statement

Yes

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Session Classification: Monday Poster Session

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