





Beam RF Effects Update Mike Woods, SLAC

Session on this at MDI Workshop,

http://www-conf.slac.stanford.edu/mdi/sessions/beamrf.htm

- Talks at this Workshop:
 - Test Beam session, "ILC Tracking and Test Beams Status and Plans" D. Bailey, U. of Bristol www-conf.slac.stanford.edu/lcws05/program/session.asp#o
 - ii. DAQ session, "MDI Issues for DAQ (EMI and Backgrounds)" M. Woods
 www.conf.slag.stanford.edu/lows05/program/session.asp#m

www-conf.slac.stanford.edu/lcws05/program/session.asp#m

Beam RF Effects Summary From MDI Workshop, Jan. 2005

Significant impact on:

- RF shielding for beamline and detector components
- Detector design
- Signal Processing and DAQ architecture

Beam rf effects have had a significant effect at previous colliders: ex. SLC, PEP-II, HERA, UA1 beampipe heating and EMI from HOMs

Detector physicists MUST study this seriously together with the accelerator experts

Beam Test at SLAC ESA to further investigate this is proceeding:

- with SLD's VXD3 and with simpler beampipe
- strong desire for this from international vertex community
- can provide important information for VXD design and for signal processing/DAQ for all LC Detector systems

Working group participants: M. Woods, C. Hast, N. Sinev, R. Arnold, S. Worm, D. Bailey, D. Cussans, Y. Sugimoto, T. Nelson, S. Parker, ...

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EMI Testbeam Plan



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