

ILC Vertex Detector Review

- VXD Review at FNAL from 22...26/10 (part of ALCPG 2007).
- Groups doing VXD R&D required to describe plans until 2012, when they must be ready to start VXD construction with tested sensors from proven manufacturers.
- LCFI document available on web in Project Oversight Committee section.
- Talks (also on web):
 - ◆ Introduction (Steve W)
 - ◆ Physics and software (Sonja)
 - ◆ Mechanical studies (Joel)
 - ◆ Sensors and readout (Konstantin)
 - ◆ Testing results (Andrei)
- Other groups:
 - ◆ Strasbourg (MAPS)
 - ◆ INFN (Deep n-well MAPS)
 - ◆ Hawaii/KEK (CAP)
 - ◆ MPI/Valencia (DEPFET)
 - ◆ Berkeley/LBNL (MAPS, in pixel CDS)
 - ◆ Fermilab (3D/SoI)
 - ◆ KEK (FPCCD)
 - ◆ Yale/Oregon (Chronopixels)
- Committee:
 - ◆ Hwanbae Park (Chair)
 - ◆ Chris Damerell (Chair of detector R&D)
 - ◆ Dave Christian
 - ◆ Gerhard Lutz
 - ◆ Petra Riedler
 - ◆ Steve Watts...

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- LCFI talks well presented and received.
- Clear that LCFI programme most comprehensive of those presented: DEPFET and Fermilab programmes also addressing many of issues to do with VXD design and physics.
- In closed session, questions asked about:
 - ◆ LCFI concerns regarding VXD design and construction (integration issues).
 - ◆ Strategy with regard to CPCCD and ISIS (CPCCD development earliest, but significant advantages offered by ISIS).
 - ◆ Future funding (new proposal to STFC).
 - ◆ LCFI priorities (CPCCD ladder, “integrated” VXD design, ISIS).
- LCFI commended on quality of written and oral presentation of results.
- Committee satisfied with review: Saturday “close-out” session deemed unnecessary.
- Useful exercise for LCFI, particularly as provides starting point for bid to STFC for further funding.

LCFI Proposal

- At LC-UK meeting in September it was agreed that the ILC community in the UK would:
 - ◆ Send LoI for UK involvement in the ILC programme to STFC (Brian Foster).
 - ◆ Write document for STFC outlining UK strategy for ILC (Brian to coordinate).
- Strong recommendation from Brian Foster that LCFI and CALICE submit joint proposal.
- Some synergies obvious:
 - ◆ Physics studies.
 - ◆ DAQ .
- Some less obvious:
 - ◆ Perhaps some powering issues.
 - ◆ Perhaps joint test beam work.
- Some areas CALICE/LCFI very different:
 - ◆ Mechanical requirements.
 - ◆ Majority of sensor development.
- CALICE and LCFI hope to understand by about Christmas if joint proposal makes sense.
- Aim to submit new proposal in spring 2008.
- Current LCFI funding period runs until end 2008, CALICE funding ends 3 months later.