

Vertexing

SiD Vertexing Design Study Group

Recent meetings

- [WWS VXD review Oct/07 at FNAL, ALCPG Oct/2007 FNAL](#)
- [Vertex-07 \(Lake Placid, Sep/07\)](#)
- [LCWS 2007 Hamburg, May/07\)](#)
- [SiD Meeting \(FNAL Apr/07\)](#)
- [WWS R&D panel tracking review \(Beijing Feb/07\)](#)

Communications

- [README](#)
- [SiD Agenda, ILC agenda, LCD meetings](#)
- [Tracking meeting, \[2004-2006 meeting archive\], old 2004 meeting page](#)
- [Vertex Detector Mechanical Design Meetings](#)
- [SiD Hypernews Forums, VXD Design Hypernews](#)

Design Documents and Activities

- [SiD DOD writeup drop box*, * template zip file](#)
- [Snowmass-2005 SiD vertexing report \(draft\), Design issues and tasks for Snowmass-05](#)

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- [Current Geometry \(SiDMay06-DOD\), May06-update-note, SiDAug05](#)
 - [Vertex tracking material \(SiDMay06-DOD\)*, * SiDAug05](#)
 - [Vertexing and tracking resolution study](#)
 - [GEANT Descriptions: sidmay06-DOD \(xml\), sidaug05, sidmay05](#)
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- [Detector R&D](#)

Physics, Simulation, Reconstruction and Analysis Software

- [Vertexing related physics benchmarks](#)
- The general LC simulation LCSIM page
 - [Communication forum](#)
 - [LCSIM simulation datasets](#)
 - [The GEANT4 based simulator for Linear Collider \(SLIC\)](#)
 - [LCIO LC simulation standard IO framework](#)
- Java Analysis Studio (JAS)
 - [Browse LCIO files with JAS3](#)
- Reconstruction and vertexing analysis software

Links to Participating Groups / Projects

- [Linear Collider Flavour Identification \(LCFI\) collaboration, UK](#)
- [Nick Sinev's ILC page on CCDs, simulation and tracking studies\](#)

Literature

- "Developments and Applications of High Performance CCD and CMOS Imaging Arrays", J. Janesick and G. Putnam, Annual Review of Nuclear and Particle Science, Vol 53, p263, 2003.
- "Charge-Coupled Devices as Particle Tracking Detectors", C.J.S. Damerell, Rev. Sci. Instr. 69 (1998), 1549.
- "Design and Performance of the SLD Vertex Detector, A 307Mpixel Tracking System", K. Abe et al., NIM A400, p287 (1997), SLAC-PUB-7385.
- "A Topological Vertex Reconstruction Algorithm for Hadronic Jets", D.J. Jackson, NIM A388, p247 (1997), SLAC-PUB-7215.
- "Vertex Detectors: The State of the Art and Future Prospects", C.J.S. Damerell, RAL-P-95-008, SSI95-5.
- "Straggling in Thin Silicon Detectors", H. Bichsel, Rev. Mod. Phys. 60, p663 (1988).

(please let me know if you know other good general articles)

Workshops/Conferences and Presentations

- [Valencia ECFA LC workshop \(Nov/06\)](#)
- [SiD Meeting \(SLAC Oct/06\)*, * tracking/vertexing session](#)
- [Vancouver ALCPG LC workshop \(Jul/06\)](#)

- [Ringberg castle vertex detector workshop](#)
 - [LCWS06 Tracking and Vertexing session](#)
 - [Special Tracking/Vertexing meetings at SLAC, Jan/25-27/2006](#)
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- [SiD meeting at FNAL Dec/15-16/05*,*Agenda](#)
 - [LCWS 2006, Tracking and Vertexing session](#)
 - [Snowmass 2005,Sid Tracking/Vertexing Related Sessions](#)
 - [LCWS05, Mar/05, Stanford](#)
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- [7th ACFA LC workshop, Nov/04, Taipei](#)
- [EFCA LC workshop, Sep/04, Durham](#)
- [American LC workshop, July/04, Victoria](#)
- [LCWS04, Apr/04, Paris](#)

Other Links

- [TESLA TDR Detector Design](#)

Contact: Su Dong