

## **Detector Concept 3 (SiD)**

*Friday, 10 March 2006 15:00 (30 minutes)*

The Silicon Detector Concept stresses silicon/tungsten electromagnetic calorimetry; compact, high precision, and low mass silicon tracking; pixel vertex detection with forward disks; 5 Tesla solenoidal coil; and highly segmented hadron calorimetry and muon identification. Physics requirements, the ILC environment, and costs drive the design. The high magnetic field offers unsurpassed momentum resolution, the smallest possible radius beam pipe, and compact calorimetry. Silicon sensors record single beam crossings and stand up to errant backgrounds from beam imperfections. Costs drive the design to be relatively compact. Progress in the design and plans for needed R&D will be discussed.

**Presenter:** JAROS, John

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