Silicon Detector

Introduction

The physics performance of the Silicon Detector (SiD) concept is studied using a GEANT4-based full-detector response simulation program. The detector design is described in a plain text file in xml format.

The Default Model: sid02 October 6, 2008

The current default for the SiD geometry, being used for the ILC Letter Of Intent (LOI) process, is **sid02**. This detector is defined at http://confluence.slac.stanford.edu/display/ilc/sid02 .

Previous Version: sid01

The previous default detector description is sid01, defined at http://confluence.slac.stanford.edu/display/ilc/sid01 .

Variants

The Silicon Detector and its variants are described in the attached pages. The response of the detectors to events is simulated using Geant4 with a runtime definition of the detector geometry in xml format. Each iteration of the design has a unique name, and the xml file along with a plain english description will be linked from this page.