HPS Software Overview

Framework choice.

- HPS Software will be based on the "org.lcsim" framework -- See Norman Graf's talk.

- Java based

- Advanced framework for simulation and analysis, already used by ILC and others.

- Already contains tracking.

- Collider oriented, while we are fixed target.

- Two day "intensive" to get non SLAC people up to speed and exchange ideas.

This session

- Norman Graf -- Simulation and data reconstruction framework

- Sergey Boyarinov -- DAQ

- Ebrahim Ebrahim -- Data Model, EVIO ➞ LCIO

- Matt Graham -- Tracking

- Omar Moreno -- Level 3 Trigger

- Dave Heddle -- Online Software

- Homer Neal -- Database & HPS Computing needs

- Tim Nelson -- Calibration software and requirements

Tasks

- Software support for HPS is a big job.

- See: HPS Required Software Components on Confluence.
  https://confluence.slac.stanford.edu/display/hpsg/HPS+Required+Software+Components

- Event Generators, Simulation, Geometry, Digitization, Reconstruction, Tracking, Trigger, Monitoring/Online Tools, Calibration, Constants

- Physics Analysis