

Tracking Software Optimization for the Silicon Detector Option

- Begin with existing 3D trackers: CCD
- Study Silicon Strip Tracker
- Study Physics Impact

Tracking Study

- Begin by studying tracking efficiency and fake rates for existing trackers
- Continue with different configurations in MC
- Create new trackers with silicon strip planes and conduct similar studies
- Study Higgs, SUSY etc. physics yields and resolutions

Personnel

- Purohit has silicon and tracking experience: downstream and upstream silicon strip tracking on E791. Built E791 silicon plane readout and DA.
- Weidemann has BaBar MC experience. Stationed at SLAC, can liaison effectively.
- New post-doc needed to do much of this work.