Schedule

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Instrument Analysis Workshop 2
September 27, 2004
The Hardware is Coming!

• This is a very exciting (and demanding) year for us.
  – after >10 years of talk, thought, planning, meetings, documents, *gigabytes* of ppt, reviews, and more reviews...flight hardware is on its way!
  – the exact arrival dates still uncertain (see following slides), but the first hardware should be ready for integration at SLAC within the next two months.

» there are continuing threats to the schedule, but we must be prepared.
Context

• A suite of detailed test data-taking runs is being defined for each stage of the build. Using the data, there are two basic categories of data analysis:
  – (mostly) automated, basic go/no-go tests. These are done by I&T, with ~instant result turn-around to support the schedule.
  – **this work:** more detailed analyses using (very likely) the same data. A key opportunity to look for more subtle, sophisticated, and detailed effects:
    » To uncover and quantify any instrumental effects early that could have an impact on science data analysis
    » Are there additions to the go/no-go test suite?
    » To apply reconstruction algorithms to real data
    » To start the work that will evolve in the Instrument Science Operations Center (ISOC)/Science Operations Group (SOG)
    » To grow a group to participate in the beam tests analysis effort (after instrument delivery)

  – Although these are not the critical go/no-go tests (gates to the next steps of integration), there will be time pressure to get results -- typically days-weeks. The collaboration is relying on this analysis being done.
LAT Schedule

• Huge amount of activity fabricating flight hardware
  – see more details tomorrow
  – many great accomplishments, some significant delays
• TKR is the critical path
  – current best estimate has tower A delivered end of November and tower B end of December.
• LAT schedule shows 8 weeks to install and test towers (CAL+TKR) A&B, followed by the 2-tower Comprehensive Performance Test (CPT).

• Thus, nominally can expect 2-tower CPT data in February BUT BE READY EARLIER!
  – be ready for Tower A data by mid-November
  – be ready for Tower B data by mid-December
  – be ready for 2-tower CPT data by mid-January
Conclusions (same as July workshop)

• This is the first opportunity to get to know the instrument we’ve been planning for so long! The start of a long relationship.

• The tasks, questions, and issues discussed at this workshop are just the start. The results will lead to more questions. See Eduardo’s talk for the goals of this workshop.

• We already have lots of experience
  – beam tests, EM tests, balloon flight, simulations and performance analysis.

• Ready to take the next big step. Enjoy!