Schedule

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Instrument Analysis Workshop 2

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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!