

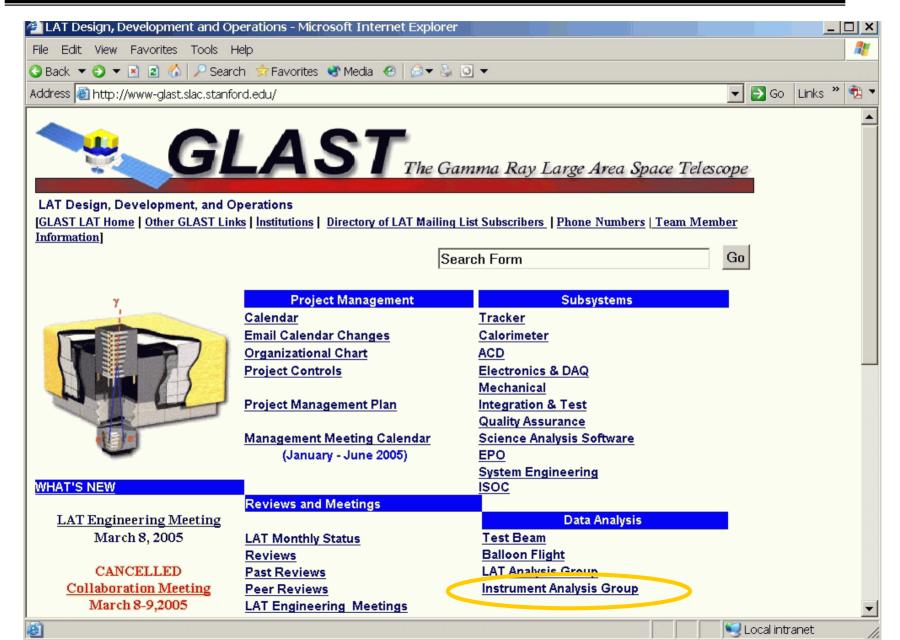
Introduction to the Workshop Series

Eduardo do Couto e Silva March 10, 2005

E. do Couto e Silva

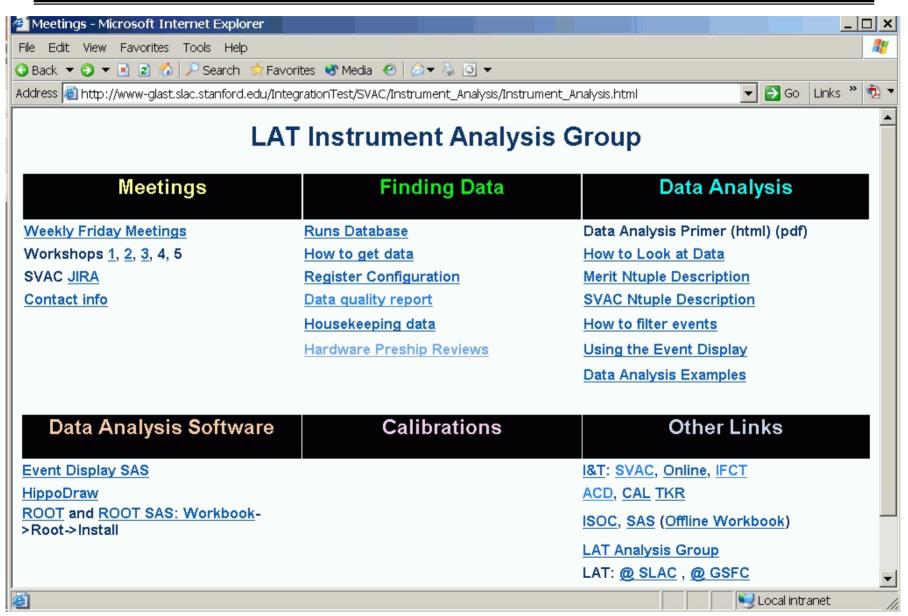


Where are we?





New Web Page



E. do Couto e Silva 3/9



Goals for this Workshop Series

Prepare for Instrument Data Analysis

- Familiarizing LAT Collaborators with the
 - LAT instrument
 - Front-End Electronics
 - Trigger and Data Acquisition
 - Data Analysis Software
 - Data taking plans during LAT integration using
 - Cosmic rays
 - Van de Graaff photons
- Create a forum to
 - exchange knowledge between all subsystems and "hardware and software oriented people"
- Use simulated and real Data to
 - exercise reconstruction algorithms (mostly with real data)
 - exercise the data analysis tools and provide feedback to developers
- Develop expertise to
 - uncover and quantify any instrumental effects that could have an impact on the LAT science data
 - start the work that will evolve into the Science Operations Group of the ISOC
 - create a core and trained group to participate in the beam tests analysis effort (after instrument delivery)

Develop ownership of the LAT instrument

E. do Couto e Silva 4/9



The Workshop Series

- Instrument Analysis Workshop 1 (June 7-8, 2004)
 - Kick off meeting
 - Homogenize the knowledge from people who will do the data analysis
 - Assign "projects" using Monte Carlo simulated data
- Instrument Analysis Workshop 2 (September 27, 2004)
 - Discuss results from MC projects assigned during Workshop 1
 - Discuss results from projects derived from REAL data collected with the Engineering Models (CAL and TKR)
- Instrument Analysis Workshop 3 (March 10, 2005)
 - Analysis of real data from the first two towers
- Instrument Analysis Workshop 4 (Summer, 2005 TBR)
 - Analysis of real data from XX-towers (TBD)
- Instrument Analysis Workshop 5 (September, 2005 TBR)
 - LAT Data Analysis (and to validate Monte Carlo simulation)

E. do Couto e Silva 5/9



Goals for Workshop 3

Instrument Data Analysis – real data!

- Discuss improvements in the reconstruction code
 - New and better TKR recon
 - New and better CAL calibrations
 - We made it just in time, thanks SAS/CAL/TKR!
- Discuss improvements in the infrastructure
 - Analysis examples
 - Tutorials
 - Runs Database
- Discuss data analysis for End to end runs with cosmic rays
 - Working group
- Preliminary results
 - From 3 test runs we took 2 ½ weeks ago
 Develop ownership of the LAT instrument

E. do Couto e Silva 6/9



Which data do we have?

- 3 precious runs with ~ 100K events each
 - **140001338**
 - 140001339
 - 140001340
- Monte Carlo simulations
- These were not processed with the Engineering Model Code
 - We used GlastRelease and did it by hand
 - There will be a reprocessing next week when we get the final tagged code
 - Just in time for data taking (scheduled for next Monday)
 - » Details later in the morning talks

E. do Couto e Silva 7/9



Special Thanks to

- Everyone who has helped to debug and improve the infrastructure
 - Thanks SAS for the support and patience with our requests usually due tomorrow...
 - Sure we want more...we will always do
- European/Japanese Collaborators who are providing substantial contribution to keep projects going
 - Keep the flame alive when away from SLAC...
 - Come to SLAC if you are feeling lonely...
- NRL and Pisa for providing the whenever-you-can support during this important construction phase
 - We appreciate the XX% donations in the weekly meetings
 - but we need you at a 100% level to understand the instrument!
 - ..and you all came to give talks in all Workshops: thank you!
- Everyone working with the "new Kid on the block": Trigger
 - We are getting the infrastructure in place
 - First Data from integrated tower!
- Bill and Steve for the guidance and support
 - Couldn't do it without you!
- Anders, Xin and Warren
 - Hard-working, dependable and fun to work with: the fuel for this engine
 - Yep, you guys need a break: take 40 long minutes for lunch next time...

E. do Couto e Silva 8/9



Side Note

- We are all exhausted
 - This week was pretty intense in I&T since we are gearing up to take data
 - Not everything will be smooth, but it will still be fun!

E. do Couto e Silva 9/9