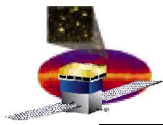


Introduction to the Instrument Analysis Workshop 4

**Eduardo do Couto e Silva
July 14, 2005**

Dinner Tonight – Confirm by coffee break




*Adam Sun's
Szechwan Cafe*

HOME

SPECIAL LUNCH PLATE

APPETIZERS

SOUP

BEVERAGES

DINNERS - DINNER PLATE

- BEEF
- CHICKEN
- PORK
- TOFU (Bean Curd)
- MU SHU
- VEGETABLE
- CREATE YOUR OWN
- SEAFOOD
- SIZZLING
- RICE - CHOW MEIN

Welcome to Adam Sun's Szechwan Cafe.

Whether you are a regular here or a first time guest, if there is something you have been wanting to try that is not on the menu or if you just want something new, your host, Adam would be pleased to arrange a menu that is specially designed for you. His regulars enjoy this service and you can too. Just ask for Adam.

We are open for lunch and dinner in the heart of Palo Alto's California Avenue's business district. We are available for catered events, providing elegantly decorated and delicious Szechwan Cuisine. With over 20 years of experience, Adam Sun knows how to please.

Please visit us.

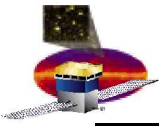
Szechwan Cafe

406 California Ave, Palo Alto, CA 94306.
Lunch and dinner, closed Sundays.
Szechuan and Hunan styles in an informal, elegant atmosphere.
Tele: (650) 327-1688

TODAY: Dinner 7 pm
Please confirm your participation
I reserved 40 seats
20 dollars (tax& gratuity included) pay over there

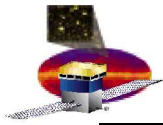
You pay for your drinks

Make sure during the break you load your talks in the computer
Warren can help you
Talks will appear on the web later in the day



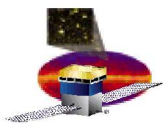
Workshop Series

- **Happy anniversary to us !**
 - **There is one more coming**
 - **Aug 29 during LAT Collaboration meeting**
- **Original Plan was to do only 5 workshops**
 - **We are considering to continue the effort for one more year**
 - **Adjust its scope as we change phases in the LAT project**



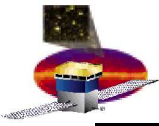
Goals for this Workshop

- **Revisit data taken during the last few months**
 - **2 towers**
 - Most of the analysis
 - End to end tests
 - SVAC runs
 - **4 towers**
 - Handful of runs only
 - **6 towers**
 - Almost no runs
 - » we will take more soon
- **Sharpen data analysis ideas for full LAT**
 - **Learn from our mistakes**
- **Provide feedback to data taking plans**



What we will talk about?

- **Comparison of baseline run to those taken with**
 - **Different PDU voltages**
 - **Different trigger types**
 - **Different TKR cable readout**
 - **Different input rates (pulse generator)**
 - **Different CAL configurations**
 - **4 range high energy muon gain**
 - **Flight configuration**
- **Some preliminary studies**
 - **Calibrations**
 - **Alignment**
 - **Trigger**
 - **Deadtime**
- **Discussions**
 - **Data taking configurations for the next LAT tests**
 - **Data access**
 - **Preparation of internal notes**
- **Special guest appearance**
 - **ACD**
 - **To be delivered to SLAC in about a month**



Timeline for data taking

- **8 towers in a grid**
 - **End of July**
- **ACD at SLAC**
 - **Mid-August**
 - Will get some ACD only data
 - **Maybe we will integrate ACD into 8 towers !**
- **LAT**
 - **All CAL modules are at SLAC**
 - **TKR modules may be all delivered “at once”**
 - **During the month of September**
- **The last two bullets require a midcourse correction in our data taking plans**

We need to organize ourselves





Proposal for the next workshop (Aug 29)

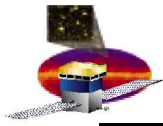
We will have a discussion on Friday afternoon

- **Invited talk**
 - **Operations**
- **Expected results**
 - **Calibration trends**
 - Knowledge of how stable the system is crucial for the next phase (ISOC)
 - **Inter and Intra tower alignment**
 - Comparison with metrology survey
 - **Monte Carlo comparisons**
 - Is the geometry implemented correctly?
 - **Studies with photons from secondary cosmic ray showers**
- **Discussions**
 - **How does the TEM diagnostics and system timing work?**
 - **How do the trigger and filter work on orbit?**
 - **How we will configure the ACD for data taking tests**
 - We will have the best muon telescope ever !
 - **How to turn around results in a period of few weeks**
 - There will be a crunch during the end of the year
 - Construction will be over and we need to help I&T during its final stages
 - **Proposal on distributions to be monitored during operations**
 - Benefit from our knowledge in looking at the data

Operations



Rob Cameron
not is his best days...



Last Slide

- **Thanks for coming**
 - **I know everyone is busy**
- **We have two full days of data analysis presentations**
 - **Only 1 data analysis from SVAC**
 - This means the Collaboration is carrying the effort
- **Next logical steps**
 - **Final characterization and calibrations of full LAT**
 - **Operations**