

===== **Tianlai teleconf (21 May 2015) summary** =====

Attendance: NAOC, CMU, UW, LAL, Obs. Paris, Nançay
NAOC: Xuelei Chen, Yidong Xu, Jiao Zhang, Fengquan WU
UW (Wisconsin): P. Timbie, Le Zhang
CMU: Jeff Peterson
Observatoire: J.M.Martin
LAL: R. Ansari, J.E. Campagne, Qizhi Huang, M. Moniez

This meeting web page and documents:
<https://indico.lal.in2p3.fr/event/2880/>
(modification pw = tian21cmte)

Date of the collaboration meeting and visit to the site:
6 - 12 September 2015

Tianlai site and instrument - status (see slides)

- Progress report on the construction of living area
- 6 feeds installed on the cylinders + 32 channel correlator
- currently checking the operation of the optical modules : we have some problems which might be due to the optical fiber cable length (8 km) - although not likely (~ 6 dB attenuation) - or poor signal to noise ratio. Jeff suggest to increase the RF power.
- The problems can not be tested in the lab, as no 6-8 km fiber available at NAOC.

TAC: Tianlai Data Analysis Center At Fermilab

- Albert Stebbins could not attend the meeting. A short report is given by P. Timbie.
- A pre-proposal has been submitted by Albert to Fermilab - this is a two step process
- Question has been raised about the methods to transfer data: IHEP has good network connection to SLAC - Investigate the possibility of using this link.
- Question by Xuelei about using tapes for data transfer - Jeff says that tapes are sensitive to dry environment.
- It would be wise to have a air humidifier in the computer room at the site

Update on PAON-4

- Short presentation by R. Ansari / J.E. Campagne (see slides) : problem of electronic gain variations with temperature
- PAON-4 data analysis - presentation by Q. Huang (see slides)

HIRAX 6 m dishes

- Jeff presents the work that has been done in Pittsburgh to find a solution combining commercial dishes (chinese manufacturer) and a simple mechanical mount with manual pointing in one direction (N-S) - See slides