

===== **Tianlai teleconf (11 June 2015) summary** =====

Attendance: NAOC, CMU, UW, KASI, LAL, Obs. Paris, Nançay

NAOC: Xuelei Chen, Yidong Xu, Jiao Zhang, Fengquan WU

UW (Wisconsin): Le Zhang

CMU: Jeff Peterson

Fermilab: A. Stebbins

KASI: Cristiano Sabiu

Observatoire: J.M.Martin, S. Torchinsky

LAL: R. Ansari, J.E. Campagne, Qizhi Huang, M. Moniez

CEA: C. Magneville

This meeting web page and documents:

<https://indico.lal.in2p3.fr/event/2900/>

(modification pw = tian21cmte)

LDRD (Fermilab) proposal (see slides by A. Stebbins)

- An LDRD proposal for R&D on Tianlai data processing at Fermilab was submitted

====> TAC : Tianlai Data Analysis Center at Fermilab

- first selection will be done by June 19th, full proposal (few pages) are then due for 24 July
- check the possibility of using tapes to transport the data
- clarify data format

Update on Tianlai site and instrument (X. Chen)

- quite severe flood after heavy rain on June 10th (several policemen have died)
- the small bridge on the road between the village and antenna array is destroyed
- No other problem anticipated with the antenna array
- Fengquan has been testing the optical modules with the reflectometer
- the noise figure increases from 0.5 to 0.58 dB due to the long optical cable, that should not be a problem
- some of the problems have been solved by fusing again the optical cable
- Feeds were installed on the 16 dishes, as well as a cabinet for the optical modules
- 8 km represents ~ 4 dB attenuation - Jeff's opinion is that higher power transmitters are not needed. although the question of aging for transmitters is still open, as well as the question of thermal stabilization

KASI participation to Tianlai

- Yong-Seon Song & Cristiano Sabiu from theoretical/observational cosmology group of KASI (Korean Astronomy & Space Science Institute) have expressed interest in joining the Tianlai collaboration.

- They would be interested in cross correlation between Tianlai & DESI data
- A. Stebbins : DESI & Tianlai have similar science goals and cross correlations should not be published before DESI data becomes publicly available
- R. Ansari mentions that CEA-IRFU colleagues are involved in DESI

AOB

- X. Chen suggest to Le Zhang to transform the foreground subtraction method he developed with B. Wandelt into a usable code