Tianlai Experiment White Paper Outline

- I. Science Goals
 - HI science 0<z<3
 - transients?
- II. Strategy
 - test dish vs cylinder approaches
 - Pathfinders --> Pathfinders + --> Full Array
 - low-z survey --> high-z survey
- III. Dish Array
- IV. Cylinder Array
- V. Analog electronics
 - feeds
 - LNAs
 - RF over fiber
- VI. Correlators
 - -DSP
 - -CASPER
 - -GPU?
- VII. Site
 - RFI surveys
 - map
 - infrastructure

- VIII. Observing Strategy
- A. Dish Array
 - deep NCP integration at low-z
 - deep NCP integration at high-z
 - overlap with optical surveys?
 - wide survey at low-z
 - wide survey at high-z
- B. Cylinder Array
 - wide survey, low z
 - wide survey, high z
- IX. Analysis Plans & Tools
 - Jiao Zhang et al 1606.03090, 1606.03830
- X. Forecasts
 - Xu, Wang, Chen 1410.7794
 - Xu, Hamann, Chen 1607.00817
- XI. Collaboration
- XII. Status
 - pictures from Xinjiang
- Acknowledgements
- References