

# **T16D data analysis / data acquisition (discussion)**

**Next actions ...**

# Transit interferometry with dishes

## Advantages and Challenges

- How stable is Tianlai dish array
- How well do we get our calibration , how stable is it in time
- Continue to characterise cross correlations / couplings between dishes
- We might be able to bring some knowledge about foregrounds : spectral index ...
- Compare dish and cylinders using simultaneous observations
- Very useful to have a reasonably known sky to observe and compare it with skymaps as reconstructed by T16D with
- Need reasonably bright sources to perform calibration
- Prepare observations at low  $z$  for cross correlations
- Advantages / disadvantages of combining visibilities , or analysing each visibility separately

## Next actions

- Reactivate data analysis
- Shifan's TLPipe software
- Albert Stebbin's mathematica analysis tools
- Reza + Olivier calibration pipeline
- Define a sky area at mid-latitude to be observed - with enough bright sources for calibration
- Observe this patch with the current setup (700-800 MHz) before switching to low z (1300-1400 MHz)
- Need at least about 10 degree declination band - with ~10 constant declination scans
- Determine the needed integration time - A program that should be carried aout in two or three months maximum
- Coordinate between China/France/US for the analysis