

- Many talks to be posted: https://www.bnl.gov/tra2018/
- Whitepaper about proposed "Stage 2" HI array
 - 2 < z < 6
 - 65,000 dishes

Day 1

Overview of the 21cm intensity mapping Tzu-Ching Chang

Status of CHIME Seth Siegel

Status of HIRAX Ben Saliwanchik

Status of EoR experiments Adrian Liu

EDGES result Raul Monsalve

Status of TianLai Peter Timbie

Status of BINGO Carlos Alexandre Wuensche, Michael Peel

- new site in Brazil, going ahead

Advances in Data reduction and Foreground Cleaning Techniques Johnny Pober

Design and analysis lessons from HERA James Aguirre

Science case for z<6 experiment(s)

Emanuele Castorina

- overview of 'Stage 2' HI whitepaper

Cross-correlations, weak lensing and tidal reconstructions Simon Foreman

Day 2

Beam calibration with drones Ben Saliwanchik

Yale group using same drone as Fengquan & Juyong

Gain stability techniques Kevin Bandura

The design and calibration of the 50-200 MHz receiver

and spectrometer for 21-cm observations with a single antenna Alan Rogers

Advances in hardware for large-N correlators Larry D'Addario

EPIcal and FFT imaging Adam Beardsley

Phased Array Feed/GBT

1400 MHz system works, forms 7 beams Anish Roshi

FELIX and gFEX Kai Chen

Brookhaven ATLAS group building trigger electronics similar to NEBULA board at LAL

RFI rejection (and FRB detection) Kendrick Smith

Discussion of technology needs

'digitizing at the feed is just as challenging as transmitting analog signals on long lines'

Day 3

21-cm with Single Dish observations

Phil Bull

- interesting science at large scales (larger than BAO scale)
- no instruments are optimized to look there

Hydrodynamical simulations of neutral hydrogen

Francisco Villaescusa-Navarro

Science with Dark Ages experiments

Daan Meerburg

Complementary science: FRBs and pulsars

Albert Stebbins

CHIME FRB detection

Kendrick Smith

Discussion on Decadal Submission Strategy

- science white papers due January '19
- instrument white papers due later in '19